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(54) Title: NOVEL METHODS OF DIAGNOSIS OF METASTATIC COLORECTAL CANCER, COMPOSITIONS AND METH-ODS OF SCREENING FOR MODULATORS OF METASTATIC COLORECTAL CANCER

(57) Abstract: Described herein are methods and compositions that can be used for diagnosis and treatment of metastatic colorectal cancer. Also described herein are methods that can be used to identify modulators of metastatic colorectal cancer.

NOVEL METHODS OF DIAGNOSIS OF METASTATIC COLORECTAL CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR MODULATORS OF METASTATIC COLORECTAL CANCER

CROSS-REFERENCES TO RELATED APPLICATIONS

The present application is related to USSN 60/272,206, filed February 27, 2001, USSN 60/281,149, filed April 2, 2001, and USSN 60/284,555, filed April 17, 2001, all of which are herein incorporated by referenced in their entirety.

FIELD OF THE INVENTION

The invention relates to the identification of nucleic acid and protein expression profiles and nucleic acids, products, and antibodies thereto that are involved in metastatic colorectal cancer; and to the use of such expression profiles and compositions in diagnosis and therapy of metastatic colorectal cancer. The invention further relates to methods for identifying and using agents and/or targets that inhibit metastatic colorectal cancer.

BACKGROUND OF THE INVENTION

Cancer of the colon and/or rectum (referred to as "colorectal cancer") are significant in Western populations and particularly in the United States. Cancers of the colon and rectum occur in both men and women most commonly after the age of 50. These develop as the result of a pathologic transformation of normal colon epithelium to an invasive cancer. There have been a number of recently characterized genetic alterations that have been implicated in colorectal cancer, including mutations in two classes of genes, tumor-suppressor genes and proto-oncogenes, with recent work suggesting that mutations in DNA repair genes may also be involved in tumorigenesis. For example, inactivating mutations of both alleles of the adenomatous polyposis coli (APC) gene, a tumor suppressor gene, appears to be one of the earliest events in colorectal cancer, and may even be the initiating event. Other genes implicated in colorectal cancer include the MCC gene, the p53 gene, the DCC (deleted in colorectal carcinoma) gene and other chromosome 18q genes, and genes in the TGF-β signaling pathway. For a review, see *Molecular Biology of Colorectal Cancer*, pp. 238-299, in *Curr. Probl. Cancer*, Sept/Oct 1997; see also Willams, *Colorectal Cancer*

(1996); Kinsella & Schofield, Colorectal Cancer: A Scientific Perspective (1993); Colorectal Cancer: Molecular Mechanisms, Premalignant State and its Prevention (Schmiegel & Scholmerich eds., 2000); Colorectal Cancer: New Aspects of Molecular Biology and Their Clinical Applications (Hanski et al., eds 2000); McArdle et al., Colorectal Cancer (2000); Wanebo, Colorectal Cancer (1993); Levin, The American Cancer Society: Colorectal Cancer (1999); Treatment of Hepatic Metastases of Colorectal Cancer (Nordlinger & Jaeck eds., 1993); Management of Colorectal Cancer (Dunitz et al., eds. 1998); Cancer: Principles and Practice of Oncology (Devita et al., eds. 2001); Surgical Oncology: Contemporary Principles and Practice (Kirby et al., eds. 2001); Offit, Clinical Cancer Genetics: Risk Counseling and Management (1997); Radioimmunotherapy of Cancer (Abrams & Fritzberg eds. 2000); Fleming, AJCC Cancer Staging Handbook (1998); Textbook of Radiation Oncology (Leibel & Phillips eds. 2000); and Clinical Oncology (Abeloff et al., eds. 2000).

Imaging of colorectal cancer for diagnosis has been problematic and limited. In addition, metastasis of the tumor to the lumen, and metastasis of tumor cells to regional lymph nodes are important prognostic factors (see, e.g., PET in Oncology: Basics and Clinical Application (Ruhlmann et al. eds. 1999). For example, five year survival rates drop from 80 percent in patients with no lymph node metastases to 45 to 50 percent in those patients who do have lymph node metastases. A recent report showed that micrometastases can be detected from lymph nodes using reverse transcriptase-PCR methods based on the presence of mRNA for carcinoembryonic antigen, which has previously been shown to be present in the vast majority of colorectal cancers but not in normal tissues. Liefers et al., New England J. of Med. 339(4):223 (1998). In addition, colorectal cancers often metastasize to the liver. However, the lack of information about the gene expression exhibited by these cancers limits the ability to effectively diagnose and treat the disease.

Thus, methods for diagnosis and prognosis of metastatic colorectal cancer and effective treatment of colorectal cancer would be desirable. Accordingly, provided herein are methods that can be used in diagnosis and prognosis of metastatic colorectal cancer. Further provided are methods that can be used to screen candidate therapeutic agents for the ability to modulate, e.g., treat, colorectal cancer. Additionally, provided herein are molecular targets and compositions for therapeutic intervention in metastatic colorectal disease and other metastatic cancers.

SUMMARY OF THE INVENTION

The present invention therefore provides nucleotide sequences of genes that are up- and down-regulated in metastatic colorectal cancer cells. Such genes and the proteins they

encode are useful for diagnostic and prognostic purposes, and also as targets for screening for therapeutic compounds that modulate metastatic colorectal cancer, such as antibodies. The methods of detecting nucleic acids of the invention or their encoded proteins can be used for a number of purposes. Examples include, early detection of colon cancers, monitoring and early detection of relapse following treatment of colon cancers, monitoring response to therapy of colon cancers, determining prognosis of colon cancers, directing therapy of colon cancers, selecting patients for postoperative chemotherapy or radiation therapy, selecting therapy, determining tumor prognosis, treatment, or response to treatment, and early detection of precancerous colon adenomas. Other aspects of the invention will become apparent to the skilled artisan by the following description of the invention.

In one aspect, the present invention provides a method of detecting a metastatic colorectal cancer-associated transcript in a cell from a patient, the method comprising contacting a biological sample from the patient with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26.

In one embodiment, the polynucleotide selectively hybridizes to a sequence at least 95% identical to a sequence as shown in Tables 1-26. In another embodiment, the polynucleotide comprises a sequence as shown in Tables 1-26.

In one embodiment, the biological sample is a tissue sample. In another embodiment, the biological sample comprises isolated nucleic acids, e.g., mRNA.

In one embodiment, the polynucleotide is labeled, e.g., with a fluorescent label.

In one embodiment, the polynucleotide is immobilized on a solid surface.

In one embodiment, the patient is undergoing a therapeutic regimen to treat metastatic colorectal cancer. In another embodiment, the patient is suspected of having metastatic colorectal cancer.

In one embodiment, the patient is a human.

In one embodiment, the method further comprises the step of amplifying nucleic acids before the step of contacting the biological sample with the polynucleotide.

In another aspect, the present invention provides methods of detecting polypeptide encoded by a metastatic colorectal cancer-associated transcript in a cell from a patient, the method comprising contacting a biological sample from the patient with an antibody that specifically binds a polypeptide encoded by a sequence at least 80% identical to a sequence as shown in Tables 1-26.

In another aspect, the present invention provides a method of monitoring the efficacy of a therapeutic treatment of metastatic colorectal cancer, the method comprising the steps of: (i) providing a biological sample from a patient undergoing the therapeutic treatment; and (ii) determining the level of a metastatic colorectal cancer-associated transcript in the biological sample by contacting the biological sample with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26., thereby monitoring the efficacy of the therapy.

In one embodiment, the method further comprises the step of: (iii) comparing the level of the metastatic colorectal cancer-associated transcript to a level of the metastatic colorectal cancer-associated transcript in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

In another aspect, the present invention provides a method of monitoring the efficacy of a therapeutic treatment of metastatic colorectal cancer, the method comprising the steps of: (i) providing a biological sample from a patient undergoing the therapeutic treatment; and (ii) determining the level of a metastatic colorectal cancer-associated antibody in the biological sample by contacting the biological sample with a polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26, wherein the polypeptide specifically binds to the metastatic colorectal cancer-associated antibody, thereby monitoring the efficacy of the therapy.

In one embodiment, the method further comprises the step of: (iii) comparing the level of the metastatic colorectal cancer-associated antibody to a level of the metastatic colorectal cancer-associated antibody in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

In another aspect, the present invention provides a method of monitoring the efficacy of a therapeutic treatment of metastatic colorectal cancer, the method comprising the steps of: (i) providing a biological sample from a patient undergoing the therapeutic treatment; and (ii) determining the level of a metastatic colorectal cancer-associated polypeptide in the biological sample by contacting the biological sample with an antibody, wherein the antibody specifically binds to a polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26, thereby monitoring the efficacy of the therapy.

In one embodiment, the method further comprises the step of: (iii) comparing the level of the metastatic colorectal cancer-associated polypeptide to a level of the metastatic

colorectal cancer-associated polypeptide in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

In one aspect, the present invention provides an isolated nucleic acid molecule consisting of a polynucleotide sequence as shown in Tables 1-26.

In one embodiment, an expression vector or cell comprises the isolated nucleic acid.

In one aspect, the present invention provides an isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-26.

In another aspect, the present invention provides an antibody that specifically binds to an isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-26.

In one embodiment, the antibody is conjugated to an effector component, e.g., a fluorescent label, a radioisotope or a cytotoxic chemical.

In one embodiment, the antibody is an antibody fragment. In another embodiment, the antibody is humanized.

In one aspect, the present invention provides a method of detecting a metastatic colorectal cancer cell in a biological sample from a patient, the method comprising contacting the biological sample with an antibody as described herein.

In another aspect, the present invention provides a method of detecting antibodies specific to metastatic colorectal cancer in a patient, the method comprising contacting a biological sample from the patient with a polypeptide encoded by a nucleic acid comprises a sequence from Tables 1-26.

In another aspect, the present invention provides a method for identifying a compound that modulates a metastatic colorectal cancer-associated polypeptide, the method comprising the steps of: (i) contacting the compound with a metastatic colorectal cancer-associated polypeptide, the polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26; and (ii) determining the functional effect of the compound upon the polypeptide.

In one embodiment, the functional effect is a physical effect, an enzymatic effect, or a chemical effect.

In one embodiment, the polypeptide is expressed in a eukaryotic host cell or cell membrane. In another embodiment, the polypeptide is recombinant.

In one embodiment, the functional effect is determined by measuring ligand binding to the polypeptide.

In another aspect, the present invention provides a method of inhibiting proliferation of a metastatic colorectal cancer-associated cell to treat colorectal cancer in a patient, the method comprising the step of administering to the subject a therapeutically effective amount of a compound identified as described herein.

In one embodiment, the compound is an antibody.

In another aspect, the present invention provides a drug screening assay comprising the steps of: (i) administering a test compound to a mammal having colorectal cancer or a cell isolated therefrom; (ii) comparing the level of gene expression of a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26. in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal, wherein a test compound that modulates the level of expression of the polynucleotide is a candidate for the treatment of colorectal cancer.

In one embodiment, the control is a mammal with colorectal cancer or a cell therefrom that has not been treated with the test compound. In another embodiment, the control is a normal cell or mammal.

In another aspect, the present invention provides a method for treating a mammal having colorectal cancer comprising administering a compound identified by the assay described herein.

In another aspect, the present invention provides a pharmaceutical composition for treating a mammal having colorectal cancer, the composition comprising a compound identified by the assay described herein and a physiologically acceptable excipient.

DETAILED DESCRIPTION OF THE INVENTION

In accordance with the objects outlined above, the present invention provides novel methods for diagnosis and treatment of colon and/or rectal cancer (e.g., colorectal cancer), including metastatic colorectal cancers, as well as methods for screening for compositions which modulate colorectal cancer. By "metastatic colorectal cancer" herein is meant a colon and/or rectal tumor or cancer that is classified as Dukes stage C or D (see, e.g., Cohen et al., Cancer of the Colon, in Cancer: Principles and Practice of Oncology, pp. 1144-1197 (Devita et al., eds., 5th ed. 1997); see also Harrison's Principles of Internal Medicine, pp. 1289-129 (Wilson et al., eds., 12th ed., 1991). "Treatment, monitoring, detection or modulation of metastatic colorectal cancer" includes treatment, monitoring, detection, or modulation of metastatic colorectal disease in those patients who have metastatic colorectal

disease (Dukes stage C or D). In Dukes stage A, the tumor has penetrated into, but not through, the bowel wall. In Dukes stage B, the tumor has penetrated through the bowel wall but there is not yet any lymph involvement. In Dukes stage C, the cancer involves regional lymph nodes. In Dukes stage D, there is distant metastasis, e.g., liver, lung, etc.

Tables 1-26 provide UniGene cluster identification numbers for the nucleotide sequence of genes that exhibit increased or decreased expression in metastasizing colorectal cancer samples. Tables 1-26 also provide an exemplar accession number that provides a nucleotide sequence that is part of the UniGene cluster. In Tables 1-26, the ratio provided represents primary tumor samples from known Dukes B stage survivors vs. liver metastasis samples from patients with metastatic colorectal cancer. In these samples, the identified genes are underexpressed in the metastatic samples, as the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. In Tables 1-26, the ratio provided represents liver metastasis samples from patients with known metastatic colorectal cancer vs. known primary tumor samples from Dukes B stage survivors. In these samples, the identified genes are overexpressed in the metastatic samples, as the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. In Tables 1-26, the ratio provided represents primary tumor samples from known Dukes B stage survivors vs. liver metastasis samples from patients with metastatic colorectal cancer. In these samples, the identified genes are overexpressed in the metastatic samples, as the ratio is less than one, preferably 0.5 or less, more preferably 0.25 or less. Survivors are subjects who have been disease free for five years or longer.

In Tables 1-26, the ratio provided represents liver metastasis samples from patients with known metastatic disease vs. tissue samples from normal colon tissue. In these samples, the identified genes are overexpressed in the metastatic samples, as the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. In Tables 1-26, the ratio represents liver metastasis samples from patients with known metastatic disease vs. tissue samples from normal colon tissue. In these samples, the identified genes are underexpressed in the metastatic samples, as the ratio is less than one, preferably 0.5 or less, more preferably 0.25 or less.

One of skill will recognize that although the sequences identified in Tables 1-26 exhibited increased or decreased expression in metastasizing colorectal cancer samples, the sequences of the invention, and their encoded proteins, can be used to diagnose, treat or prevent cancers in patients with Dukes stage A or B colorectal cancers. Alteration of gene

expression for a gene in Tables 1-26 may be more likely or less likely to indicate that the subject will progress to metastatic disease. The sequences can also be used to diagnose, treat or prevent precancerous or benign conditions such as precancerous colon adenomas. Alteration of gene expression for a gene in Tables 1-26 may or may not indicate that the subject is more likely to progress to cancer or to metastatic disease. Thus, although the specification focuses primarily on metastasizing colorectal cancer, the methods described below can also be applied to non-metastasizing colorectal cancers (e.g., Dukes stages A and B) and precancerous or benign conditions (e.g., precancerous adenomas) as well.

Definitions

The term "metastatic colorectal cancer protein" or "metastatic colorectal cancer polynucleotide" or "metastatic colorectal cancer-associated transcript" refers to nucleic acid and polypeptide polymorphic variants, alleles, mutants, and interspecies homologs that: (1) have a nucleotide sequence that has greater than about 60% nucleotide sequence identity, 65%, 70%, 75%, 80%, 85%, 90%, preferably 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% or 99% or greater nucleotide sequence identity, preferably over a region of over a region of at least about 25, 50, 100, 200, 500, 1000, or more nucleotides, to a nucleotide sequence of or associated with a UniGene cluster of Tables 1-26; (2) bind to antibodies, e.g., polyclonal antibodies, raised against an immunogen comprising an amino acid sequence encoded by a nucleotide sequence of or associated with a UniGene cluster of Tables 1-26, and conservatively modified variants thereof; (3) specifically hybridize under stringent hybridization conditions to a nucleic acid sequence, or the complement thereof of Tables 1-26 and conservatively modified variants thereof or (4) have an amino acid sequence that has greater than about 60% amino acid sequence identity, 65%, 70%, 75%, 80%, 85%, 90%, preferably 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% or 99% or greater amino sequence identity, preferably over a region of over a region of at least about 25, 50, 100, 200, 500, 1000, or more amino acid, to an amino acid sequence encoded by a nucleotide sequence of or associated with a UniGene cluster of Tables 1-26. A polynucleotide or polypeptide sequence is typically from a mammal including, but not limited to, primate, e.g., human; rodent, e.g., rat, mouse, hamster; cow, pig, horse, sheep, or other mammal. A "metastatic colorectal cancer polypeptide" and a "metastatic colorectal cancer polynucleotide," include both naturally occurring or recombinant.

A "full length" metastatic colorectal cancer protein or nucleic acid refers to a metastatic colorectal cancer polypeptide or polynucleotide sequence, or a variant thereof, that contains all of the elements normally contained in one or more naturally occurring, wild type metastatic colorectal cancer polynucleotide or polypeptide sequences. The "full length" may be prior to, or after, various stages of post-translation processing or splicing, including alternative splicing.

"Biological sample" as used herein is a sample of biological tissue or fluid that contains nucleic acids or polypeptides, e.g., of a metastatic colorectal cancer protein, polynucleotide or transcript. Such samples include, but are not limited to, tissue isolated from primates, e.g., humans, or rodents, e.g., mice, and rats. Biological samples may also include sections of tissues such as biopsy and autopsy samples, frozen sections taken for histologic purposes, blood, plasma, serum, sputum, stool, tears, mucus, hair, skin, etc. Biological samples also include explants and primary and/or transformed cell cultures derived from patient tissues. A biological sample is typically obtained from a eukaryotic organism, most preferably a mammal such as a primate, e.g., chimpanzee or human; cow; dog; cat; a rodent, e.g., guinea pig, rat, mouse; rabbit; or other mammal; or a bird; reptile; fish.

"Providing a biological sample" means to obtain a biological sample for use in methods described in this invention. Most often, this will be done by removing a sample of cells from an animal, but can also be accomplished by using previously isolated cells (e.g., isolated by another person, at another time, and/or for another purpose), or by performing the methods of the invention *in vivo*. Archival tissues, having treatment or outcome history, will be particularly useful.

The terms "identical" or percent "identity," in the context of two or more nucleic acids or polypeptide sequences, refer to two or more sequences or subsequences that are the same or have a specified percentage of amino acid residues or nucleotides that are the same (i.e., about 60% identity, preferably 70%, 75%, 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or higher identity over a specified region, when compared and aligned for maximum correspondence over a comparison window or designated region) as measured using a BLAST or BLAST 2.0 sequence comparison algorithms with default parameters described below, or by manual alignment and visual inspection (see, e.g., NCBI web site http://www.ncbi.nlm.nih.gov/BLAST/ or the like). Such sequences are then said to be "substantially identical." This definition also refers to, or may be applied to, the compliment of a test sequence. The definition also includes sequences that have deletions

and/or additions, as well as those that have substitutions, as well as naturally occurring, e.g., polymorphic or allelic variants, and man-made variants. As described below, the preferred algorithms can account for gaps and the like. Preferably, identity exists over a region that is at least about 25 amino acids or nucleotides in length, or more preferably over a region that is 50-100 amino acids or nucleotides in length.

For sequence comparison, typically one sequence acts as a reference sequence, to which test sequences are compared. When using a sequence comparison algorithm, test and reference sequences are entered into a computer, subsequence coordinates are designated, if necessary, and sequence algorithm program parameters are designated. Preferably, default program parameters can be used, or alternative parameters can be designated. The sequence comparison algorithm then calculates the percent sequence identities for the test sequences relative to the reference sequence, based on the program parameters.

A "comparison window", as used herein, includes reference to a segment of one of the number of contiguous positions selected from the group consisting typically of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are optimally aligned. Methods of alignment of sequences for comparison are well-known in the art. Optimal alignment of sequences for comparison can be conducted, e.g., by the local homology algorithm of Smith & Waterman, Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman & Wunsch, J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson & Lipman, Proc. Nat'l. Acad. Sci. USA 85:2444 (1988), by computerized implementations of these algorithms (GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package, Genetics Computer Group, 575 Science Dr., Madison, WI), or by manual alignment and visual inspection (see, e.g., Current Protocols in Molecular Biology (Ausubel et al., eds. 1995 supplement)).

Preferred examples of algorithms that are suitable for determining percent sequence identity and sequence similarity include the BLAST and BLAST 2.0 algorithms, which are described in Altschul et al., Nuc. Acids Res. 25:3389-3402 (1977) and Altschul et al., J. Mol. Biol. 215:403-410 (1990). BLAST and BLAST 2.0 are used, with the parameters described herein, to determine percent sequence identity for the nucleic acids and proteins of the invention. Software for performing BLAST analyses is publicly available through the National Center for Biotechnology Information (http://www.ncbi.nlm.nih.gov/). This algorithm involves first identifying high scoring sequence pairs (HSPs) by identifying short

words of length W in the query sequence, which either match or satisfy some positive-valued threshold score T when aligned with a word of the same length in a database sequence. T is referred to as the neighborhood word score threshold (Altschul et al., supra). These initial neighborhood word hits act as seeds for initiating searches to find longer HSPs containing them. The word hits are extended in both directions along each sequence for as far as the cumulative alignment score can be increased. Cumulative scores are calculated using, e.g., for nucleotide sequences, the parameters M (reward score for a pair of matching residues; always > 0) and N (penalty score for mismatching residues; always < 0). For amino acid sequences, a scoring matrix is used to calculate the cumulative score. Extension of the word hits in each direction are halted when: the cumulative alignment score falls off by the quantity X from its maximum achieved value; the cumulative score goes to zero or below, due to the accumulation of one or more negative-scoring residue alignments; or the end of either sequence is reached. The BLAST algorithm parameters W, T, and X determine the sensitivity and speed of the alignment. The BLASTN program (for nucleotide sequences) uses as defaults a wordlength (W) of 11, an expectation (E) of 10, M=5, N=-4 and a comparison of both strands. For amino acid sequences, the BLASTP program uses as defaults a wordlength of 3, and expectation (E) of 10, and the BLOSUM62 scoring matrix (see Henikoff & Henikoff, Proc. Natl. Acad. Sci. USA 89:10915 (1989)) alignments (B) of 50, expectation (E) of 10, M=5, N=4, and a comparison of both strands.

The BLAST algorithm also performs a statistical analysis of the similarity between two sequences (see, e.g., Karlin & Altschul, Proc. Nat'l. Acad. Sci. USA 90:5873-5787 (1993)). One measure of similarity provided by the BLAST algorithm is the smallest sum probability (P(N)), which provides an indication of the probability by which a match between two nucleotide or amino acid sequences would occur by chance. For example, a nucleic acid is considered similar to a reference sequence if the smallest sum probability in a comparison of the test nucleic acid to the reference nucleic acid is less than about 0.2, more preferably less than about 0.01, and most preferably less than about 0.001. Log values may be large negative numbers, e.g., 5, 10, 20, 30, 40, 40, 70, 90, 110, 150, 170, etc.

An indication that two nucleic acid sequences or polypeptides are substantially identical is that the polypeptide encoded by the first nucleic acid is immunologically cross reactive with the antibodies raised against the polypeptide encoded by the second nucleic acid, as described below. Thus, a polypeptide is typically substantially identical to a second polypeptide, e.g., where the two peptides differ only by conservative substitutions. Another indication that two nucleic acid sequences are substantially identical is that the two molecules

or their complements hybridize to each other under stringent conditions, as described below. Yet another indication that two nucleic acid sequences are substantially identical is that the same primers can be used to amplify the sequences.

A "host cell" is a naturally occurring cell or a transformed cell that contains an expression vector and supports the replication or expression of the expression vector. Host cells may be cultured cells, explants, cells *in vivo*, and the like. Host cells may be prokaryotic cells such as *E. coli*, or eukaryotic cells such as yeast, insect, amphibian, or mammalian cells such as CHO, HeLa, and the like (see, e.g., the American Type Culture Collection catalog or web site, www.atcc.org).

The terms "isolated," "purified," or "biologically pure" refer to material that is substantially or essentially free from components that normally accompany it as found in its native state. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein or nucleic acid that is the predominant species present in a preparation is substantially purified. In particular, an isolated nucleic acid is separated from some open reading frames that naturally flank the gene and encode proteins other than protein encoded by the gene. The term "purified" in some embodiments denotes that a nucleic acid or protein gives rise to essentially one band in an electrophoretic gel. Preferably, it means that the nucleic acid or protein is at least 85% pure, more preferably at least 95% pure, and most preferably at least 99% pure. "Purify" or "purification" in other embodiments means removing at least one contaminant from the composition to be purified. In this sense, purification does not require that the purified compound be homogenous, e.g., 100% pure.

The terms "polypeptide," "peptide" and "protein" are used interchangeably herein to refer to a polymer of amino acid residues. The terms apply to amino acid polymers in which one or more amino acid residue is an artificial chemical mimetic of a corresponding naturally occurring amino acid, as well as to naturally occurring amino acid polymers, those containing modified residues, and non-naturally occurring amino acid polymer.

The term "amino acid" refers to naturally occurring and synthetic amino acids, as well as amino acid analogs and amino acid mimetics that function similarly to the naturally occurring amino acids. Naturally occurring amino acids are those encoded by the genetic code, as well as those amino acids that are later modified, e.g., hydroxyproline, γ -carboxyglutamate, and O-phosphoserine. Amino acid analogs refers to compounds that have the same basic chemical structure as a naturally occurring amino acid, e.g., an α carbon that is bound to a hydrogen, a carboxyl group, an amino group, and an R group, e.g., homoserine,

norleucine, methionine sulfoxide, methionine methyl sulfonium. Such analogs may have modified R groups (e.g., norleucine) or modified peptide backbones, but retain the same basic chemical structure as a naturally occurring amino acid. Amino acid mimetics refers to chemical compounds that have a structure that is different from the general chemical structure of an amino acid, but that functions similarly to a naturally occurring amino acid.

Amino acids may be referred to herein by either their commonly known three letter symbols or by the one-letter symbols recommended by the IUPAC-IUB Biochemical Nomenclature Commission. Nucleotides, likewise, may be referred to by their commonly accepted single-letter codes.

"Conservatively modified variants" applies to both amino acid and nucleic acid sequences. With respect to particular nucleic acid sequences, conservatively modified variants refers to those nucleic acids which encode identical or essentially identical amino acid sequences, or where the nucleic acid does not encode an amino acid sequence, to essentially identical or associated, e.g., naturally contiguous, sequences. Because of the degeneracy of the genetic code, a large number of functionally identical nucleic acids encode most proteins. For instance, the codons GCA, GCC, GCG and GCU all encode the amino acid alanine. Thus, at every position where an alanine is specified by a codon, the codon can be altered to another of the corresponding codons described without altering the encoded polypeptide. Such nucleic acid variations are "silent variations," which are one species of conservatively modified variations. Every nucleic acid sequence herein which encodes a polypeptide also describes silent variations of the nucleic acid. One of skill will recognize that in certain contexts each codon in a nucleic acid (except AUG, which is ordinarily the only codon for methionine, and TGG, which is ordinarily the only codon for tryptophan) can be modified to yield a functionally identical molecule. Accordingly, often silent variations of a nucleic acid which encodes a polypeptide is implicit in a described sequence with respect to the expression product, but not with respect to actual probe sequences.

As to amino acid sequences, one of skill will recognize that individual substitutions, deletions or additions to a nucleic acid, peptide, polypeptide, or protein sequence which alters, adds or deletes a single amino acid or a small percentage of amino acids in the encoded sequence is a "conservatively modified variant" where the alteration results in the substitution of an amino acid with a chemically similar amino acid. Conservative substitution tables providing functionally similar amino acids are well known in the art. Such conservatively modified variants are in addition to and do not exclude polymorphic variants, interspecies homologs, and alleles of the invention.

The following eight groups each contain amino acids that are typically conservative substitutions for one another: 1) Alanine (A), Glycine (G); 2) Aspartic acid (D), Glutamic acid (E); 3) Asparagine (N), Glutamine (Q); 4) Arginine (R), Lysine (K); 5) Isoleucine (I), Leucine (L), Methionine (M), Valine (V); 6) Phenylalanine (F), Tyrosine (Y), Tryptophan (W); 7) Serine (S), Threonine (T); and 8) Cysteine (C), Methionine (M) (see, e.g., Creighton, Proteins (1984)).

Macromolecular structures such as polypeptide structures can be described in terms of various levels of organization. For a general discussion of this organization, see, e.g., Alberts et al., Molecular Biology of the Cell (3rd ed., 1994) and Cantor & Schimmel, Biophysical Chemistry Part I: The Conformation of Biological Macromolecules (1980). "Primary structure" refers to the amino acid sequence of a particular peptide. "Secondary structure" refers to locally ordered, three dimensional structures within a polypeptide. These structures are commonly known as domains. Domains are portions of a polypeptide that often form a compact unit of the polypeptide and are typically 25 to approximately 500 amino acids long. Typical domains are made up of sections of lesser organization such as stretches of β -sheet and α -helices. "Tertiary structure" refers to the complete three dimensional structure of a polypeptide monomer. "Quaternary structure" refers to the three dimensional structure formed, usually by the noncovalent association of independent tertiary units. Anisotropic terms are also known as energy terms.

"Nucleic acid" or "oligonucleotide" or "polynucleotide" or grammatical equivalents used herein means at least two nucleotides covalently linked together.

Oligonucleotides are typically from about 5, 6, 7, 8, 9, 10, 12, 15, 25, 30, 40, 50 or more nucleotides in length, up to about 100 nucleotides in length. Nucleic acids and polynucleotides are a polymers of any length, including longer lengths, e.g., 200, 300, 500, 1000, 2000, 3000, 5000, 7000, 10,000, etc. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, nucleic acid analogs are included that may have alternate backbones, comprising, e.g., phosphoramidate, phosphorothioate, phosphorodithioate, or O-methylphophoroamidite linkages (see Eckstein, Oligonucleotides and Analogues: A Practical Approach, Oxford University Press); and peptide nucleic acid backbones and linkages. Other analog nucleic acids include those with positive backbones; non-ionic backbones, and non-ribose backbones, including those described in U.S. Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7, ASC Symposium Series 580, Carbohydrate Modifications in Antisense Research, Sanghui &

Cook, eds.. Nucleic acids containing one or more carbocyclic sugars are also included within one definition of nucleic acids. Modifications of the ribose-phosphate backbone may be done for a variety of reasons, e.g. to increase the stability and half-life of such molecules in physiological environments or as probes on a biochip. Mixtures of naturally occurring nucleic acids and analogs can be made; alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

Particularly preferred are peptide nucleic acids (PNA) which includes peptide nucleic acid analogs. These backbones are substantially non-ionic under neutral conditions, in contrast to the highly charged phosphodiester backbone of naturally occurring nucleic acids. This results in two advantages. First, the PNA backbone exhibits improved hybridization kinetics. PNAs have larger changes in the melting temperature (T_m) for mismatched versus perfectly matched basepairs. DNA and RNA typically exhibit a 2-4°C drop in T_m for an internal mismatch. With the non-ionic PNA backbone, the drop is closer to 7-9°C. Similarly, due to their non-ionic nature, hybridization of the bases attached to these backbones is relatively insensitive to salt concentration. In addition, PNAs are not degraded by cellular enzymes, and thus can be more stable.

The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. As will be appreciated by those in the art, the depiction of a single strand also defines the sequence of the complementary strand; thus the sequences described herein also provide the complement of the sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA or a hybrid, where the nucleic acid may contain combinations of deoxyribo- and ribo-nucleotides, and combinations of bases, including uracil, adenine, thymine, cytosine, guanine, inosine, xanthine hypoxanthine, isocytosine, isoguanine, etc. "Transcript" typically refers to a naturally occurring RNA, e.g., a pre-mRNA, hnRNA, or mRNA. As used herein, the term "nucleoside" includes nucleotides and nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occurring analog structures. Thus, e.g. the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

A "label" or a "detectable moiety" is a composition detectable by spectroscopic, photochemical, biochemical, immunochemical, chemical, or other physical means. For example, useful labels include ³²P, fluorescent dyes, electron-dense reagents, enzymes (e.g., as commonly used in an ELISA), biotin, digoxigenin, or haptens and proteins

or other entities which can be made detectable, e.g., by incorporating a radiolabel into the peptide or used to detect antibodies specifically reactive with the peptide.

An "effector" or "effector moiety" or "effector component" is a molecule that is bound (or linked, or conjugated), either covalently, through a linker or a chemical bond, or noncovalently, through ionic, van der Waals, electrostatic, or hydrogen bonds, to an antibody. The "effector" can be a variety of molecules including, e.g., detection moieties including radioactive compounds, fluorescent compounds, an enzyme or substrate, tags such as epitope tags, a toxin; activatable moieties, a chemotherapeutic agent; a lipase; an antibiotic; or a radioisotope emitting "hard" e.g., beta radiation.

A "labeled nucleic acid probe or oligonucleotide" is one that is bound, either covalently, through a linker or a chemical bond, or noncovalently, through ionic, van der Waals, electrostatic, or hydrogen bonds to a label such that the presence of the probe may be detected by detecting the presence of the label bound to the probe. Alternatively, method using high affinity interactions may achieve the same results where one of a pair of binding partners binds to the other, e.g., biotin, streptavidin.

As used herein a "nucleic acid probe or oligonucleotide" is defined as a nucleic acid capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include natural (i.e., A, G, C, or T) or modified bases (7-deazaguanosine, inosine, etc.). In addition, the bases in a probe may be joined by a linkage other than a phosphodiester bond, so long as it does not functionally interfere with hybridization. Thus, e.g., probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages. It will be understood by one of skill in the art that probes may bind target sequences lacking complete complementarity with the probe sequence depending upon the stringency of the hybridization conditions. The probes are preferably directly labeled as with isotopes, chromophores, lumiphores, chromogens, or indirectly labeled such as with biotin to which a streptavidin complex may later bind. By assaying for the presence or absence of the probe, one can detect the presence or absence of the select sequence or subsequence. Diagnosis or prognosis may be based at the genomic level, or at the level of RNA or protein expression.

The term "recombinant" when used with reference, e.g., to a cell, or nucleic acid, protein, or vector, indicates that the cell, nucleic acid, protein or vector, has been modified by the introduction of a heterologous nucleic acid or protein or the alteration of a native nucleic acid or protein, or that the cell is derived from a cell so modified. Thus, e.g.,

recombinant cells express genes that are not found within the native (non-recombinant) form of the cell or express native genes that are otherwise abnormally expressed, under expressed or not expressed at all. By the term "recombinant nucleic acid" herein is meant nucleic acid, originally formed *in vitro*, in general, by the manipulation of nucleic acid, e.g., using polymerases and endonucleases, in a form not normally found in nature. In this manner, operably linkage of different sequences is achieved. Thus an isolated nucleic acid, in a linear form, or an expression vector formed *in vitro* by ligating DNA molecules that are not normally joined, are both considered recombinant for the purposes of this invention. It is understood that once a recombinant nucleic acid is made and reintroduced into a host cell or organism, it will replicate non-recombinantly, i.e., using the *in vivo* cellular machinery of the host cell rather than *in vitro* manipulations; however, such nucleic acids, once produced recombinantly, although subsequently replicated non-recombinantly, are still considered recombinant for the purposes of the invention. Similarly, a "recombinant protein" is a protein made using recombinant techniques, i.e., through the expression of a recombinant nucleic acid as depicted above.

The term "heterologous" when used with reference to portions of a nucleic acid indicates that the nucleic acid comprises two or more subsequences that are not normally found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences, e.g., from unrelated genes arranged to make a new functional nucleic acid, e.g., a promoter from one source and a coding region from another source. Similarly, a heterologous protein will often refer to two or more subsequences that are not found in the same relationship to each other in nature (e.g., a fusion protein).

A "promoter" is defined as an array of nucleic acid control sequences that direct transcription of a nucleic acid. As used herein, a promoter includes necessary nucleic acid sequences near the start site of transcription, such as, in the case of a polymerase II type promoter, a TATA element. A promoter also optionally includes distal enhancer or repressor elements, which can be located as much as several thousand base pairs from the start site of transcription. A "constitutive" promoter is a promoter that is active under most environmental and developmental conditions. An "inducible" promoter is a promoter that is active under environmental or developmental regulation. The term "operably linked" refers to a functional linkage between a nucleic acid expression control sequence (such as a promoter, or array of transcription factor binding sites) and a second nucleic acid sequence,

wherein the expression control sequence directs transcription of the nucleic acid corresponding to the second sequence.

An "expression vector" is a nucleic acid construct, generated recombinantly or synthetically, with a series of specified nucleic acid elements that permit transcription of a particular nucleic acid in a host cell. The expression vector can be part of a plasmid, virus, or nucleic acid fragment. Typically, the expression vector includes a nucleic acid to be transcribed operably linked to a promoter.

The phrase "selectively (or specifically) hybridizes to" refers to the binding, duplexing, or hybridizing of a molecule only to a particular nucleotide sequence under stringent hybridization conditions when that sequence is present in a complex mixture (e.g., total cellular or library DNA or RNA).

The phrase "stringent hybridization conditions" refers to conditions under which a probe will hybridize to its target subsequence, typically in a complex mixture of nucleic acids, but to essentially no other sequences. Stringent conditions are sequencedependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. An extensive guide to the hybridization of nucleic acids is found in Tijssen, Techniques in Biochemistry and Molecular Biology--Hybridization with Nucleic Probes, "Overview of principles of hybridization and the strategy of nucleic acid assays" (1993). Generally, stringent conditions are selected to be about 5-10°C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength pH. The T_m is the temperature (under defined ionic strength, pH, and nucleic concentration) at which 50% of the probes complementary to the target hybridize to the target sequence at equilibrium (as the target sequences are present in excess, at T_m, 50% of the probes are occupied at equilibrium). Stringent conditions will be those in which the salt concentration is less than about 1.0 M sodium ion, typically about 0.01 to 1.0 M sodium ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g., 10 to 50 nucleotides) and at least about 60°C for long probes (e.g., greater than 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide. For selective or specific hybridization, a positive signal is at least two times background, preferably 10 times background hybridization. Exemplary stringent hybridization conditions are often: 50% formamide, 5x SSC, and 1% SDS, incubating at 42°C, or, 5x SSC, 1% SDS, incubating at 65°C, with wash in 0.2x SSC, and 0.1% SDS at 65°C. For PCR, a temperature of about 36°C is typical for low stringency amplification,

although annealing temperatures may vary between about 32°C and 48°C depending on primer length. For high stringency PCR amplification, a temperature of about 62°C is typical, although high stringency annealing temperatures can range from about 50°C to about 65°C, depending on the primer length and specificity. Typical cycle conditions for both high and low stringency amplifications include a denaturation phase of 90°C - 95°C for 30 sec - 2 min., an annealing phase lasting 30 sec. - 2 min., and an extension phase of about 72°C for 1 - 2 min. Protocols and guidelines for low and high stringency amplification reactions are provided, e.g., in Innis et al., PCR Protocols, A Guide to Methods and Applications (1990).

Nucleic acids that do not hybridize to each other under stringent conditions are still substantially identical if the polypeptides which they encode are substantially identical. This occurs, e.g., when a copy of a nucleic acid is created using the maximum codon degeneracy permitted by the genetic code. In such cases, the nucleic acids typically hybridize under moderately stringent hybridization conditions. Exemplary "moderately stringent hybridization conditions" include a hybridization in a buffer of 40% formamide, 1 M NaCl, 1% SDS at 37°C, and a wash in 1X SSC at 45°C. A positive hybridization is at least twice background. Those of ordinary skill will readily recognize that alternative hybridization and wash conditions can be utilized to provide conditions of similar stringency. Additional guidelines for determining hybridization parameters are provided in numerous reference, e.g., and Current Protocols in Molecular Biology, ed. Ausubel, et al.

The phrase "functional effects" in the context of assays for testing compounds that modulate activity of a metastatic colorectal cancer protein includes the determination of a parameter that is indirectly or directly under the influence of the metastatic colorectal cancer protein or nucleic acid, e.g., an enzymatic, functional, physical, or chemical effect, such as the ability to decrease metastatic colorectal cancer. It includes ligand binding activity; cell growth on soft agar; anchorage dependence; contact inhibition and density limitation of growth; cellular proliferation; cellular transformation; growth factor or serum dependence; tumor specific marker levels; invasiveness into Matrigel; tumor growth and metastasis in vivo; mRNA and protein expression in cells undergoing metastasis, and other characteristics of metastatic colorectal cancer cells. "Functional effects" include in vitro, in vivo, and ex vivo activities.

By "determining the functional effect" is meant assaying for a compound that increases or decreases a parameter that is indirectly or directly under the influence of a metastatic colorectal cancer protein sequence, e.g., functional, enzymatic, physical and

chemical effects. Such functional effects can be measured by any means known to those skilled in the art, e.g., changes in spectroscopic characteristics (e.g., fluorescence, absorbance, refractive index), hydrodynamic (e.g., shape), chromatographic, or solubility properties for the protein, measuring inducible markers or transcriptional activation of the metastatic colorectal cancer protein; measuring binding activity or binding assays, e.g., binding to antibodies or other ligands, and measuring cellular proliferation. Determination of the functional effect of a compound on metastatic colorectal cancer can also be performed using metastatic colorectal cancer assays known to those of skill in the art such as an in vitro assays, e.g., cell growth on soft agar; anchorage dependence; contact inhibition and density limitation of growth; cellular proliferation; cellular transformation; growth factor or serum dependence; tumor specific marker levels; invasiveness into Matrigel; tumor growth and metastasis in vivo; mRNA and protein expression in cells undergoing metastasis, and other characteristics of metastatic colorectal cancer cells. The functional effects can be evaluated by many means known to those skilled in the art, e.g., microscopy for quantitative or qualitative measures of alterations in morphological features, measurement of changes in RNA or protein levels for metastatic colorectal cancer-associated sequences, measurement of RNA stability, identification of downstream or reporter gene expression (CAT, luciferase, βgal, GFP and the like), e.g., via chemiluminescence, fluorescence, colorimetric reactions, antibody binding, inducible markers, and ligand binding assays.

"Inhibitors", "activators", and "modulators" of metastatic colorectal cancer polynucleotide and polypeptide sequences are used to refer to activating, inhibitory, or modulating molecules or compounds identified using *in vitro* and *in vivo* assays of metastatic colorectal cancer polynucleotide and polypeptide sequences of the invention. Inhibitors are compounds that, e.g., bind to, partially or totally block activity, decrease, prevent, delay activation, inactivate, desensitize, or down regulate the activity or expression of metastatic colorectal cancer proteins of the invention, e.g., antagonists. Antisense nucleic acids may seem to inhibit expression and subsequent function of the protein. "Activators" are compounds that increase, open, activate, facilitate, enhance activation, sensitize, agonize, or up regulate metastatic colorectal cancer protein activity. Inhibitors, activators, or modulators also include genetically modified versions of metastatic colorectal cancer proteins, e.g., versions with altered activity, as well as naturally occurring and synthetic ligands, antagonists, agonists, antibodies, small chemical molecules and the like. Such assays for inhibitors and activators include, e.g., expressing the metastatic colorectal cancer protein *in vitro*, in cells, or cell membranes, applying putative modulator compounds, and then

determining the functional effects on activity, as described above. Activators and inhibitors of metastatic colorectal cancer can also be identified by incubating metastatic colorectal cancer cells with the test compound and determining increases or decreases in the expression of 1 or more metastatic colorectal cancer proteins, e.g., 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50 or more metastatic colorectal cancer proteins, such as colorectal cancer proteins encoded by the sequences set out in Tables 1-26.

Samples or assays comprising metastatic colorectal cancer proteins that are treated with a potential activator, inhibitor, or modulator are compared to control samples without the inhibitor, activator, or modulator to examine the extent of inhibition. Control samples (untreated with inhibitors) are assigned a relative protein activity value of 100%. Inhibition of a polypeptide is achieved when the activity value relative to the control is about 80%, preferably 50%, more preferably 25-0%. Activation of a metastatic colorectal cancer polypeptide is achieved when the activity value relative to the control (untreated with activators) is 110%, more preferably 150%, more preferably 200-500% (i.e., two to five fold higher relative to the control), more preferably 1000-3000% higher.

The phrase "changes in cell growth" refers to any change in cell growth and proliferation characteristics *in vitro* or *in vivo*, such as formation of foci, anchorage independence, semi-solid or soft agar growth, changes in contact inhibition and density limitation of growth, loss of growth factor or serum requirements, changes in cell morphology, gaining or losing immortalization, gaining or losing tumor specific markers, ability to form or suppress tumors when injected into suitable animal hosts, and/or immortalization of the cell. *See, e.g.*, Freshney, *Culture of Animal Cells a Manual of Basic Technique* pp. 231-241 (3rd ed. 1994).

"Tumor cell" refers to precancerous, cancerous, and normal cells in a tumor.

"Cancer cells," "transformed" cells or "transformation" in tissue culture, refers to spontaneous or induced phenotypic changes that do not necessarily involve the uptake of new genetic material. Although transformation can arise from infection with a transforming virus and incorporation of new genomic DNA, or uptake of exogenous DNA, it can also arise spontaneously or following exposure to a carcinogen, thereby mutating an endogenous gene. Transformation is associated with phenotypic changes, such as immortalization of cells, aberrant growth control, nonmorphological changes, and/or malignancy (see, Freshney, Culture of Animal Cells a Manual of Basic Technique (3rd ed. 1994)).

"Antibody" refers to a polypeptide comprising a framework region from an immunoglobulin gene or fragments thereof that specifically binds and recognizes an antigen.

The recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as the myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD and IgE, respectively. Typically, the antigen-binding region of an antibody or its functional equivalent will be most critical in specificity and affinity of binding. See Paul, Fundamental Immunology.

An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of polypeptide chains, each pair having one "light" (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

Antibodies exist, e.g., as intact immunoglobulins or as a number of well-characterized fragments produced by digestion with various peptidases. Thus, e.g., pepsin digests an antibody below the disulfide linkages in the hinge region to produce F(ab')₂, a dimer of Fab which itself is a light chain joined to V_H-C_H1 by a disulfide bond. The F(ab')₂ may be reduced under mild conditions to break the disulfide linkage in the hinge region, thereby converting the F(ab')'₂ dimer into an Fab' monomer. The Fab' monomer is essentially Fab with part of the hinge region (see Fundamental Immunology (Paul ed., 3d ed. 1993). While various antibody fragments are defined in terms of the digestion of an intact antibody, one of skill will appreciate that such fragments may be synthesized de novo either chemically or by using recombinant DNA methodology. Thus, the term antibody, as used herein, also includes antibody fragments either produced by the modification of whole antibodies, or those synthesized de novo using recombinant DNA methodologies (e.g., single chain Fv) or those identified using phage display libraries (see, e.g., McCafferty et al., Nature 348:552-554 (1990))

For preparation of antibodies, e.g., recombinant, monoclonal, or polyclonal antibodies, many technique known in the art can be used (see, e.g., Kohler & Milstein, Nature 256:495-497 (1975); Kozbor et al., Immunology Today 4:72 (1983); Cole et al., pp. 77-96 in Monoclonal Antibodies and Cancer Therapy (1985); Coligan, Current Protocols in Immunology (1991); Harlow & Lane, Antibodies, A Laboratory Manual (1988); and Goding, Monoclonal Antibodies: Principles and Practice (2d ed. 1986)). Techniques for the production of single chain antibodies (U.S. Patent 4,946,778) can be adapted to produce

antibodies to polypeptides of this invention. Also, transgenic mice, or other organisms such as other mammals, may be used to express humanized antibodies. Alternatively, phage display technology can be used to identify antibodies and heteromeric Fab fragments that specifically bind to selected antigens (see, e.g., McCafferty et al., Nature 348:552-554 (1990); Marks et al., Biotechnology 10:779-783 (1992)).

A "chimeric antibody" is an antibody molecule in which, e.g, (a) the constant region, or a portion thereof, is altered, replaced or exchanged so that the antigen binding site (variable region) is linked to a constant region of a different or altered class, effector function and/or species, or an entirely different molecule which confers new properties to the chimeric antibody, e.g., an enzyme, toxin, hormone, growth factor, drug, etc.; or (b) the variable region, or a portion thereof, is altered, replaced or exchanged with a variable region having a different or altered antigen specificity.

Identification of metastatic colorectal cancer-associated sequences

In one aspect, the expression levels of genes are determined in different patient samples for which diagnosis information is desired, to provide expression profiles. An expression profile of a particular sample is essentially a "fingerprint" of the state of the sample; while two states may have any particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is characteristic of the state of the cell. That is, normal tissue may be distinguished from cancerous or metastatic cancerous tissue, or metastatic cancerous tissue can be compared with tissue from surviving cancer patients. By comparing expression profiles of tissue in known different metastatic colorectal cancer states, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained.

The identification of sequences that are differentially expressed in metastatic colorectal cancer versus non-metastatic colorectal cancer tissue allows the use of this information in a number of ways. For example, a particular treatment regime may be evaluated: does a chemotherapeutic drug act to down-regulate metastatic colorectal cancer, and thus tumor growth or recurrence, in a particular patient. Similarly, diagnosis and treatment outcomes may be done or confirmed by comparing patient samples with the known expression profiles. Metastatic tissue can also be analyzed to determine the stage of metastatic colorectal cancer in the tissue. Furthermore, these gene expression profiles (or individual genes) allow screening of drug candidates with an eye to mimicking or altering a

particular expression profile; e.g., screening can be done for drugs that suppress the metastatic colorectal cancer expression profile. This may be done by making biochips comprising sets of the important metastatic colorectal cancer genes, which can then be used in these screens. PCR methods may be applied with selected primer pairs, and analysis may be of RNA or of genomic sequences. These methods can also be done on the protein basis; that is, protein expression levels of the metastatic colorectal cancer proteins can be evaluated for diagnostic purposes or to screen candidate agents. In addition, the metastatic colorectal cancer nucleic acid sequences can be administered for gene therapy purposes, including the administration of antisense nucleic acids, or the metastatic colorectal cancer proteins (including antibodies and other modulators thereof) administered as therapeutic drugs or as protein or DNA vaccines.

Thus the present invention provides nucleic acid and protein sequences that are differentially expressed in metastatic colorectal cancer, herein termed "metastatic colorectal cancer sequences." As outlined below, metastatic colorectal cancer sequences include those that are up-regulated (i.e., expressed at a higher level) in metastatic colorectal cancer, as well as those that are down-regulated (i.e., expressed at a lower level). In a preferred embodiment, the metastatic colorectal cancer sequences are from humans; however, as will be appreciated by those in the art, metastatic colorectal cancer sequences from other organisms may be useful in animal models of disease and drug evaluation; thus, other metastatic colorectal cancer sequences are provided, from vertebrates, including mammals, including rodents (rats, mice, hamsters, guinea pigs, etc.), primates, farm animals (including sheep, goats, pigs, cows, horses, etc.) and pets (dogs, cats, etc.). Metastatic colorectal cancer sequences from other organisms may be obtained using the techniques outlined below.

Metastatic colorectal cancer sequences can include both nucleic acid and amino acid sequences. As will be appreciated by those in the art and is more fully outlined below, metastatic colorectal cancer nucleic acid sequences are useful in a variety of applications, including diagnostic applications, which will detect naturally occurring nucleic acids, as well as screening applications; e.g., biochips comprising nucleic acid probes or PCR microtiter plates with selected probes to the metastatic colorectal cancer sequences can be generated.

A metastatic colorectal cancer sequence can be initially identified by substantial nucleic acid and/or amino acid sequence homology to the metastatic colorectal cancer sequences outlined herein. Such homology can be based upon the overall nucleic acid

or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions.

For identifying metastatic colorectal cancer-associated sequences, the metastatic colorectal cancer screen typically includes comparing genes identified in different tissues, e.g., normal and cancerous tissues, or tumor tissue samples from patients who have metastatic disease vs. non metastatic tissue, or tumor tissue samples from patients who have been diagnosed with Dukes stage A or B cancer but have survived vs. metastatic tissue. Other suitable tissue comparisons include comparing metastatic colorectal cancer samples with metastatic cancer samples from other cancers, such as lung, breast, other gastrointestinal cancers, prostate, ovarian, etc. Samples of, e.g., Dukes stage B survivor tissue and tissue undergoing metastasis are applied to biochips comprising nucleic acid probes. The samples are first microdissected, if applicable, and treated as is known in the art for the preparation of mRNA. Suitable biochips are commercially available, e.g., from Affymetrix. Gene expression profiles as described herein are generated and the data analyzed.

In one embodiment, the genes showing changes in expression as between normal and disease states are compared to genes expressed in other normal tissues, preferably normal colon, but also including, and not limited to lung, heart, brain, liver, breast, kidney, muscle, prostate, small intestine, large intestine, spleen, bone and placenta. In a preferred embodiment, those genes identified during the metastatic colorectal cancer screen that are expressed in significant amounts in other tissues are removed from the profile, although in some embodiments, this is not necessary. That is, when screening for drugs, it is usually preferable that the target be disease specific, to minimize possible side effects.

In a preferred embodiment, metastatic colorectal cancer sequences are those that are up-regulated in metastatic colorectal cancer; that is, the expression of these genes is higher in the metastatic tissue as compared to non-metastatic cancerous tissue or normal colon tissue (see, e.g., Tables 1-26). "Up-regulation" as used herein means, when the ratio is presented as a number greater than one, that the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. All UniGene cluster identification numbers and accession numbers herein are for the GenBank sequence database and the sequences of the accession numbers are hereby expressly incorporated by reference. GenBank is known in the art, see, e.g., Benson, DA, et al., Nucleic Acids Research 26:1-7 (1998) and http://www.ncbi.nlm.nih.gov/. Sequences are also available in other databases, e.g., European Molecular Biology Laboratory (EMBL) and DNA Database of Japan (DDBJ).

In another preferred embodiment, metastatic colorectal cancer sequences are those that are down-regulated in the metastatic colorectal cancer; that is, the expression of these genes is lower in metastatic tissue as compared to non-metastatic cancerous tissue or normal colon tissue (see, e.g., Tables 1-26). "Down-regulation" as used herein means, when the ratio is presented as a number greater than one, that the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater, or, when the ratio is presented as a number less than one, that the ratio is less than one, preferably 0.5 or less, more preferably 0.25 or less.

Informatics

The ability to identify genes that are over or under expressed in metastatic colorectal cancer can additionally provide high-resolution, high-sensitivity datasets which can be used in the areas of diagnostics, therapeutics, drug development, pharmacogenetics, protein structure, biosensor development, and other related areas. For example, the expression profiles can be used in diagnostic or prognostic evaluation of patients with metastatic colorectal cancer. Or as another example, subcellular toxicological information can be generated to better direct drug structure and activity correlation (see Anderson, Pharmaceutical Proteomics: Targets, Mechanism, and Function, paper presented at the IBC Proteomics conference, Coronado, CA (June 11-12, 1998)). Subcellular toxicological information can also be utilized in a biological sensor device to predict the likely toxicological effect of chemical exposures and likely tolerable exposure thresholds (see U.S. Patent No. 5,811,231). Similar advantages accrue from datasets relevant to other biomolecules and bioactive agents (e.g., nucleic acids, saccharides, lipids, drugs, and the like).

Thus, in another embodiment, the present invention provides a database that includes at least one set of assay data. The data contained in the database is acquired, e.g., using array analysis either singly or in a library format. The database can be in substantially any form in which data can be maintained and transmitted, but is preferably an electronic database. The electronic database of the invention can be maintained on any electronic device allowing for the storage of and access to the database, such as a personal computer, but is preferably distributed on a wide area network, such as the World Wide Web.

The focus of the present section on databases that include peptide sequence data is for clarity of illustration only. It will be apparent to those of skill in the art that similar databases can be assembled for assay data acquired using an assay of the invention.

The compositions and methods for identifying and/or quantitating the relative and/or absolute abundance of a variety of molecular and macromolecular species from a biological sample undergoing metastatic colorectal cancer, i.e., the identification of metastatic colorectal cancer-associated sequences described herein, provide an abundance of information, which can be correlated with pathological conditions, predisposition to disease, drug testing, therapeutic monitoring, gene-disease causal linkages, identification of correlates of immunity and physiological status, among others. Although the data generated from the assays of the invention is suited for manual review and analysis, in a preferred embodiment, prior data processing using high-speed computers is utilized.

An array of methods for indexing and retrieving biomolecular information is known in the art. For example, U.S. Patents 6,023,659 and 5,966,712 disclose a relational database system for storing biomolecular sequence information in a manner that allows sequences to be catalogued and searched according to one or more protein function hierarchies. U.S. Patent 5,953,727 discloses a relational database having sequence records containing information in a format that allows a collection of partial-length DNA sequences to be catalogued and searched according to association with one or more sequencing projects for obtaining full-length sequences from the collection of partial length sequences. U.S. Patent 5,706,498 discloses a gene database retrieval system for making a retrieval of a gene sequence similar to a sequence data item in a gene database based on the degree of similarity between a key sequence and a target sequence. U.S. Patent 5,538,897 discloses a method using mass spectroscopy fragmentation patterns of peptides to identify amino acid sequences in computer databases by comparison of predicted mass spectra with experimentally-derived mass spectra using a closeness-of-fit measure. U.S. Patent 5,926,818 discloses a multidimensional database comprising a functionality for multi-dimensional data analysis described as on-line analytical processing (OLAP), which entails the consolidation of projected and actual data according to more than one consolidation path or dimension. U.S. Patent 5,295,261 reports a hybrid database structure in which the fields of each database record are divided into two classes, navigational and informational data, with navigational fields stored in a hierarchical topological map which can be viewed as a tree structure or as the merger of two or more such tree structures.

See also Mount et al., Bioinformatics (2001); Biological Sequence Analysis: Probabilistic Models of Proteins and Nucleic Acids (Durbin et al., eds., 1999); Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins (Baxevanis & Oeullette eds., 1998)); Rashidi & Buehler, Bioinformatics: Basic Applications in Biological

Science and Medicine (1999); Introduction to Computational Molecular Biology (Setubal et al., eds 1997); Bioinformatics: Methods and Protocols (Misener & Krawetz, eds, 2000); Bioinformatics: Sequence, Structure, and Databanks: A Practical Approach (Higgins & Taylor, eds., 2000); Brown, Bioinformatics: A Biologist's Guide to Biocomputing and the Internet (2001); Han & Kamber, Data Mining: Concepts and Techniques (2000); and Waterman, Introduction to Computational Biology: Maps, Sequences, and Genomes (1995).

The present invention provides a computer database comprising a computer and software for storing in computer-retrievable form assay data records cross-tabulated, e.g., with data specifying the source of the target-containing sample from which each sequence specificity record was obtained.

In an exemplary embodiment, at least one of the sources of target-containing sample is from a control tissue sample known to be free of pathological disorders. In a variation, at least one of the sources is a known pathological tissue specimen, e.g., a neoplastic lesion or another tissue specimen to be analyzed for metastatic colorectal cancer. In another variation, the assay records cross-tabulate one or more of the following parameters for each target species in a sample: (1) a unique identification code, which can include, e.g., a target molecular structure and/or characteristic separation coordinate (e.g., electrophoretic coordinates); (2) sample source; and (3) absolute and/or relative quantity of the target species present in the sample.

The invention also provides for the storage and retrieval of a collection of target data in a computer data storage apparatus, which can include magnetic disks, optical disks, magneto-optical disks, DRAM, SRAM, SGRAM, SDRAM, RDRAM, DDR RAM, magnetic bubble memory devices, and other data storage devices, including CPU registers and on-CPU data storage arrays. Typically, the target data records are stored as a bit pattern in an array of magnetic domains on a magnetizable medium or as an array of charge states or transistor gate states, such as an array of cells in a DRAM device (e.g., each cell comprised of a transistor and a charge storage area, which may be on the transistor). In one embodiment, the invention provides such storage devices, and computer systems built therewith, comprising a bit pattern encoding a protein expression fingerprint record comprising unique identifiers for at least 10 target data records cross-tabulated with target source.

When the target is a peptide or nucleic acid, the invention preferably provides a method for identifying related peptide or nucleic acid sequences, comprising performing a computerized comparison between a peptide or nucleic acid sequence assay record stored in or retrieved from a computer storage device or database and at least one other sequence. The

comparison can include a sequence analysis or comparison algorithm or computer program embodiment thereof (e.g., FASTA, TFASTA, GAP, BESTFIT) and/or the comparison may be of the relative amount of a peptide or nucleic acid sequence in a pool of sequences determined from a polypeptide or nucleic acid sample of a specimen.

The invention also preferably provides a magnetic disk, such as an IBM-compatible (DOS, Windows, Windows95/98/2000, Windows NT, OS/2) or other format (e.g., Linux, SunOS, Solaris, AIX, SCO Unix, VMS, MV, Macintosh, etc.) floppy diskette or hard (fixed, Winchester) disk drive, comprising a bit pattern encoding data from an assay of the invention in a file format suitable for retrieval and processing in a computerized sequence analysis, comparison, or relative quantitation method.

The invention also provides a network, comprising a plurality of computing devices linked via a data link, such as an Ethernet cable (coax or 10BaseT), telephone line, ISDN line, wireless network, optical fiber, or other suitable signal transmission medium, whereby at least one network device (e.g., computer, disk array, etc.) comprises a pattern of magnetic domains (e.g., magnetic disk) and/or charge domains (e.g., an array of DRAM cells) composing a bit pattern encoding data acquired from an assay of the invention.

The invention also provides a method for transmitting assay data that includes generating an electronic signal on an electronic communications device, such as a modem, ISDN terminal adapter, DSL, cable modem, ATM switch, or the like, wherein the signal includes (in native or encrypted format) a bit pattern encoding data from an assay or a database comprising a plurality of assay results obtained by the method of the invention.

In a preferred embodiment, the invention provides a computer system for comparing a query target to a database containing an array of data structures, such as an assay result obtained by the method of the invention, and ranking database targets based on the degree of identity and gap weight to the target data. A central processor is preferably initialized to load and execute the computer program for alignment and/or comparison of the assay results. Data for a query target is entered into the central processor via an I/O device. Execution of the computer program results in the central processor retrieving the assay data from the data file, which comprises a binary description of an assay result.

The target data or record and the computer program can be transferred to secondary memory, which is typically random access memory (e.g., DRAM, SRAM, SGRAM, or SDRAM). Targets are ranked according to the degree of correspondence between a selected assay characteristic (e.g., binding to a selected affinity moiety) and the same characteristic of the query target and results are output via an I/O device. For example,

a central processor can be a conventional computer (e.g., Intel Pentium, PowerPC, Alpha, PA-8000, SPARC, MIPS 4400, MIPS 10000, VAX, etc.); a program can be a commercial or public domain molecular biology software package (e.g., UWGCG Sequence Analysis Software, Darwin); a data file can be an optical or magnetic disk, a data server, a memory device (e.g., DRAM, SRAM, SGRAM, SDRAM, EPROM, bubble memory, flash memory, etc.); an I/O device can be a terminal comprising a video display and a keyboard, a modem, an ISDN terminal adapter, an Ethernet port, a punched card reader, a magnetic strip reader, or other suitable I/O device.

The invention also preferably provides the use of a computer system, such as that described above, which comprises: (1) a computer; (2) a stored bit pattern encoding a collection of peptide sequence specificity records obtained by the methods of the invention, which may be stored in the computer; (3) a comparison target, such as a query target; and (4) a program for alignment and comparison, typically with rank-ordering of comparison results on the basis of computed similarity values.

Characteristics of metastatic colorectal cancer-associated proteins

Metastatic colorectal cancer proteins of the present invention may be classified as secreted proteins, transmembrane proteins or intracellular proteins. In one embodiment, the metastatic colorectal cancer protein is an intracellular protein. Intracellular proteins may be found in the cytoplasm and/or in the nucleus and/or in the organelles. Proteins containing one or more transmembrane domains that exclusively reside in organelles are also considered intracellular proteins. Intracellular proteins are involved in all aspects of cellular function and replication (including, e.g., signaling pathways); aberrant expression of such proteins often results in unregulated or disregulated cellular processes (see, e.g., Molecular Biology of the Cell (Alberts, ed., 3rd ed., 1994). For example, many intracellular proteins have enzymatic activity such as protein kinase activity, protein phosphatase activity, protease activity, nucleotide cyclase activity, polymerase activity and the like. Intracellular proteins also serve as docking proteins that are involved in organizing complexes of proteins, or targeting proteins to various subcellular localizations, and are involved in maintaining the structural integrity of organelles.

An increasingly appreciated concept in characterizing proteins is the presence in the proteins of one or more motifs for which defined functions have been attributed. In addition to the highly conserved sequences found in the enzymatic domain of proteins, highly conserved sequences have been identified in proteins that are involved in protein-protein

interaction. For example, Src-homology-2 (SH2) domains bind tyrosine-phosphorylated targets in a sequence dependent manner. PTB domains, which are distinct from SH2 domains, also bind tyrosine phosphorylated targets. SH3 domains bind to proline-rich targets. In addition, PH domains, tetratricopeptide repeats and WD domains to name only a few, have been shown to mediate protein-protein interactions. Some of these may also be involved in binding to phospholipids or other second messengers. As will be appreciated by one of ordinary skill in the art, these motifs can be identified on the basis of primary sequence; thus, an analysis of the sequence of proteins may provide insight into both the enzymatic potential of the molecule and/or molecules with which the protein may associate. One useful database is Pfam (protein families), which is a large collection of multiple sequence alignments and hidden Markov models covering many common protein domains. Versions are available via the internet from Washington University in St. Louis, the Sanger Center in England, and the Karolinska Institute in Sweden (see, e.g., Bateman et al., Nuc. Acids Res. 28:263-266 (2000); Sonnhammer et al., Proteins 28:405-420 (1997); Bateman et al., Nuc. Acids Res. 27:260-262 (1999); and Sonnhammer et al., Nuc. Acids Res. 26:320-322-(1998)).

In another embodiment, the metastatic colorectal cancer sequences are transmembrane proteins. Transmembrane proteins are molecules that span a phospholipid bilayer of a cell. They may have an intracellular domain, an extracellular domain, or both. The intracellular domains of such proteins may have a number of functions including those already described for intracellular proteins. For example, the intracellular domain may have enzymatic activity and/or may serve as a binding site for additional proteins. Frequently the intracellular domain of transmembrane proteins serves both roles. For example certain receptor tyrosine kinases have both protein kinase activity and SH2 domains. In addition, autophosphorylation of tyrosines on the receptor molecule itself, creates binding sites for additional SH2 domain containing proteins.

Transmembrane proteins may contain from one to many transmembrane domains. For example, receptor tyrosine kinases, certain cytokine receptors, receptor guanylyl cyclases and receptor serine/threonine protein kinases contain a single transmembrane domain. However, various other proteins including channels, pumps, and adenylyl cyclases contain numerous transmembrane domains. Many important cell surface receptors such as G protein coupled receptors (GPCRs) are classified as "seven transmembrane domain" proteins, as they contain 7 membrane spanning regions. Characteristics of transmembrane domains include approximately 20 consecutive

hydrophobic amino acids that may be followed by charged amino acids. Therefore, upon analysis of the amino acid sequence of a particular protein, the localization and number of transmembrane domains within the protein may be predicted (see, e.g. PSORT web site http://psort.nibb.ac.jp/).

The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. Many extracellular domains are involved in binding to other molecules. In one aspect, extracellular domains are found on receptors. Factors that bind the receptor domain include circulating ligands, which may be peptides, proteins, or small molecules such as adenosine and the like. For example, growth factors such as EGF, FGF and PDGF are circulating growth factors that bind to their cognate receptors to initiate a variety of cellular responses. Other factors include cytokines, mitogenic factors, hormones, neurotrophic factors and the like. Extracellular domains also bind to cell-associated molecules. In this respect, they mediate cell-cell interactions. Cell-associated ligands can be tethered to the cell, e.g., via a glycosylphosphatidylinositol (GPI) anchor, or may themselves be transmembrane proteins. Extracellular domains also associate with the extracellular matrix and contribute to the maintenance of the cell structure.

Metastatic colorectal cancer proteins that are transmembrane are particularly preferred in the present invention as they are readily accessible targets for extracellular immunotherapeutics, as are described herein. In addition, as outlined below, transmembrane proteins can be also useful in imaging modalities. Antibodies may be used to label such readily accessible proteins *in situ* or in histological analysis. Alternatively, antibodies can also label intracellular proteins, in which case analytical samples are typically permeablized to provide access to intracellular proteins.

It will also be appreciated by those in the art that a transmembrane protein can be made soluble by removing transmembrane sequences, e.g., through recombinant methods. Furthermore, transmembrane proteins that have been made soluble can be made to be secreted through recombinant means by adding an appropriate signal sequence.

In another embodiment, the metastatic colorectal cancer proteins are secreted proteins; the secretion of which can be either constitutive or regulated. These proteins have a signal peptide or signal sequence that targets the molecule to the secretory pathway. Secreted proteins are involved in numerous physiological events; by virtue of their circulating nature, they often serve to transmit signals to various other cell types. The secreted protein may

function in an autocrine manner (acting on the cell that secreted the factor), a paracrine manner (acting on cells in close proximity to the cell that secreted the factor) or an endocrine manner (acting on cells at a distance). Thus secreted molecules find use in modulating or altering numerous aspects of physiology. Metastatic colorectal cancer proteins that are secreted proteins are particularly preferred in the present invention as they serve as good targets for diagnostic markers, e.g., for blood, plasma, serum, or stool tests.

Use of metastatic colorectal cancer nucleic acids

As described above, metastatic colorectal cancer sequence is initially identified by substantial nucleic acid and/or amino acid sequence homology or linkage to the metastatic colorectal cancer sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions. Typically, linked sequences on a mRNA are found on the same molecule.

The metastatic colorectal cancer nucleic acid sequences of the invention, e.g., the sequences in Tables 1-26, can be fragments of larger genes, i.e., they are nucleic acid segments. "Genes" in this context includes coding regions, non-coding regions, and mixtures of coding and non-coding regions. Accordingly, as will be appreciated by those in the art, using the sequences provided herein, extended sequences, in either direction, of the metastatic colorectal cancer genes can be obtained, using techniques well known in the art for cloning either longer sequences or the full length sequences; see Ausubel, et al., supra. Much can be done by informatics and many sequences can be clustered to include multiple sequences corresponding to a single gene, e.g., systems such as UniGene (see, http://www.ncbi.nlm.nih.gov/unigene/).

Once the metastatic colorectal cancer nucleic acid is identified, it can be cloned and, if necessary, its constituent parts recombined to form the entire metastatic colorectal cancer nucleic acid coding regions or the entire mRNA sequence. Once isolated from its natural source, e.g., contained within a plasmid or other vector or excised therefrom as a linear nucleic acid segment, the recombinant metastatic colorectal cancer nucleic acid can be further-used as a probe to identify and isolate other metastatic colorectal cancer nucleic acids, e.g., extended coding regions. It can also be used as a "precursor" nucleic acid to make modified or variant metastatic colorectal cancer nucleic acids and proteins.

The metastatic colorectal cancer nucleic acids of the present invention are used in several ways. In a first embodiment, nucleic acid probes to the metastatic colorectal

cancer nucleic acids are made and attached to biochips to be used in screening and diagnostic methods, as outlined below, or for administration, e.g., for gene therapy, vaccine, and/or antisense applications. Alternatively, the metastatic colorectal cancer nucleic acids that include coding regions of metastatic colorectal cancer proteins can be put into expression vectors for the expression of metastatic colorectal cancer proteins, again for screening purposes or for administration to a patient.

In a preferred embodiment, nucleic acid probes to metastatic colorectal cancer nucleic acids (both the nucleic acid sequences outlined in the figures and/or the complements thereof) are made. The nucleic acid probes attached to the biochip are designed to be substantially complementary to the metastatic colorectal cancer nucleic acids, i.e. the target sequence (either the target sequence of the sample or to other probe sequences, e.g., in sandwich assays), such that hybridization of the target sequence and the probes of the present invention occurs. As outlined below, this complementarity need not be perfect; there may be any number of base pair mismatches which will interfere with hybridization between the target sequence and the single stranded nucleic acids of the present invention. However, if the number of mutations is so great that no hybridization can occur under even the least stringent of hybridization conditions, the sequence is not a complementary target sequence. Thus, by "substantially complementary" herein is meant that the probes are sufficiently complementary to the target sequences to hybridize under appropriate reaction conditions, particularly high stringency conditions, as outlined herein.

A nucleic acid probe is generally single stranded but can be partially single and partially double stranded. The strandedness of the probe is dictated by the structure, composition, and properties of the target sequence. In general, the nucleic acid probes range from about 8 to about 100 bases long, with from about 10 to about 80 bases being preferred, and from about 30 to about 50 bases being particularly preferred. That is, generally complements of ORFs or whole genes are not used. In some embodiments, nucleic acids of lengths up to hundreds of bases can be used.

In a preferred embodiment, more than one probe per sequence is used, with either overlapping probes or probes to different sections of the target being used. That is, two, three, four or more probes, with three being preferred, are used to build in a redundancy for a particular target. The probes can be overlapping (i.e., have some sequence in common), or separate. In some cases, PCR primers may be used to amplify signal for higher sensitivity.

As will be appreciated by those in the art, nucleic acids can be attached or immobilized to a solid support in a wide variety of ways. By "immobilized" and grammatical

equivalents herein is meant the association or binding between the nucleic acid probe and the solid support is sufficient to be stable under the conditions of binding, washing, analysis, and removal as outlined below. The binding can typically be covalent or non-covalent. By "non-covalent binding" and grammatical equivalents herein is typically meant one or more of electrostatic, hydrophilic, and hydrophobic interactions. Included in non-covalent binding is the covalent attachment of a molecule, such as, streptavidin to the support and the non-covalent binding of the biotinylated probe to the streptavidin. By "covalent binding" and grammatical equivalents herein is meant that the two moieties, the solid support and the probe, are attached by at least one bond, including sigma bonds, pi bonds and coordination bonds. Covalent bonds can be formed directly between the probe and the solid support or can be formed by a cross linker or by inclusion of a specific reactive group on either the solid support or the probe or both molecules. Immobilization may also involve a combination of covalent and non-covalent interactions.

In general, the probes are attached to a biochip in a wide variety of ways, as will be appreciated by those in the art. As described herein, the nucleic acids can either be synthesized first, with subsequent attachment to the biochip, or can be directly synthesized on the biochip.

The biochip comprises a suitable solid substrate. By "substrate" or "solid support" or other grammatical equivalents herein is meant a material that can be modified to contain discrete individual sites appropriate for the attachment or association of the nucleic acid probes and is amenable to at least one detection method. As will be appreciated by those in the art, the number of possible substrates are very large, and include, but are not limited to, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silicabased materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, etc. In general, the substrates allow optical detection and do not appreciably fluoresce. A preferred substrate is described in copending application entitled Reusable Low Fluorescent Plastic Biochip, U.S. Application Serial No. 09/270,214, filed March 15, 1999, herein incorporated by reference in its entirety.

Generally the substrate is planar, although as will be appreciated by those in the art, other configurations of substrates may be used as well. For example, the probes may be placed on the inside surface of a tube, for flow-through sample analysis to minimize

sample volume. Similarly, the substrate may be flexible, such as a flexible foam, including closed cell foams made of particular plastics.

In a preferred embodiment, the surface of the biochip and the probe may be derivatized with chemical functional groups for subsequent attachment of the two. Thus, e.g., the biochip is derivatized with a chemical functional group including, but not limited to, amino groups, carboxy groups, oxo groups and thiol groups, with amino groups being particularly preferred. Using these functional groups, the probes can be attached using functional groups on the probes. For example, nucleic acids containing amino groups can be attached to surfaces comprising amino groups, e.g., using linkers as are known in the art; e.g., homo-or hetero-bifunctional linkers as are well known (see 1994 Pierce Chemical Company catalog, technical section on cross-linkers, pages 155-200). In addition, in some cases, additional linkers, such as alkyl groups (including substituted and heteroalkyl groups) may be used.

In this embodiment, oligonucleotides are synthesized as is known in the art, and then attached to the surface of the solid support. As will be appreciated by those skilled in the art, either the 5' or 3' terminus may be attached to the solid support, or attachment may be via an internal nucleoside.

In another embodiment, the immobilization to the solid support may be very strong, yet non-covalent. For example, biotinylated oligonucleotides can be made, which bind to surfaces covalently coated with streptavidin, resulting in attachment.

Alternatively, the oligonucleotides may be synthesized on the surface, as is known in the art. For example, photoactivation techniques utilizing photopolymerization compounds and techniques are used. In a preferred embodiment, the nucleic acids can be synthesized *in situ*, using well known photolithographic techniques, such as those described in WO 95/25116; WO 95/35505; U.S. Patent Nos. 5,700,637 and 5,445,934; and references cited within, all of which are expressly incorporated by reference; these methods of attachment form the basis of the Affimetrix GeneChipTM technology.

Often, amplification-based assays are performed to measure the expression level of metastatic colorectal cancer-associated sequences. These assays are typically performed in conjunction with reverse transcription. In such assays, a metastatic colorectal cancer-associated nucleic acid sequence acts as a template in an amplification reaction (e.g., Polymerase Chain Reaction, or PCR). In a quantitative amplification, the amount of amplification product will be proportional to the amount of template in the original sample. Comparison to appropriate controls provides a measure of the amount of metastatic colorectal

cancer-associated RNA. Methods of quantitative amplification are well known to those of skill in the art. Detailed protocols for quantitative PCR are provided, e.g., in Innis et al., PCR Protocols, A Guide to Methods and Applications (1990).

In some embodiments, a TaqMan based assay is used to measure expression. TaqMan based assays use a fluorogenic oligonucleotide probe that contains a 5' fluorescent dye and a 3' quenching agent. The probe hybridizes to a PCR product, but cannot itself be extended due to a blocking agent at the 3' end. When the PCR product is amplified in subsequent cycles, the 5' nuclease activity of the polymerase, e.g., AmpliTaq, results in the cleavage of the TaqMan probe. This cleavage separates the 5' fluorescent dye and the 3' quenching agent, thereby resulting in an increase in fluorescence as a function of amplification (see, e.g., literature provided by Perkin-Elmer, e.g., www2.perkin-elmer.com).

Other suitable amplification methods include, but are not limited to, ligase chain reaction (LCR) (see Wu & Wallace, Genomics 4:560 (1989), Landegren et al., Science 241:1077 (1988), and Barringer et al., Gene 89:117 (1990)), transcription amplification (Kwoh et al., Proc. Natl. Acad. Sci. USA 86:1173 (1989)), self-sustained sequence replication (Guatelli et al., Proc. Nat. Acad. Sci. USA 87:1874 (1990)), dot PCR, and linker adapter PCR, etc.

Expression of metastatic colorectal cancer proteins from nucleic acids

In a preferred embodiment, metastatic colorectal cancer nucleic acids, e.g., encoding metastatic colorectal cancer proteins, are used to make a variety of expression vectors to express metastatic colorectal cancer proteins which can then be used in screening assays, as described below. Expression vectors and recombinant DNA technology are well known to those of skill in the art (see, e.g., Ausubel, supra, and Gene Expression Systems (Fernandez & Hoeffler, eds, 1999)) and are used to express proteins. The expression vectors may be either self-replicating extrachromosomal vectors or vectors which integrate into a host genome. Generally, these expression vectors include transcriptional and translational regulatory nucleic acid operably linked to the nucleic acid encoding the metastatic colorectal cancer protein. The term "control sequences" refers to DNA sequences used for the expression of an operably linked coding sequence in a particular host organism. Control sequences that are suitable for prokaryotes, e.g., include a promoter, optionally an operator sequence, and a ribosome binding site. Eukaryotic cells are known to utilize promoters, polyadenylation signals, and enhancers.

Nucleic acid is "operably linked" when it is placed into a functional relationship with another nucleic acid sequence. For example, DNA for a presequence or secretory leader is operably linked to DNA for a polypeptide if it is expressed as a preprotein that participates in the secretion of the polypeptide; a promoter or enhancer is operably linked to a coding sequence if it affects the transcription of the sequence; or a ribosome binding site is operably linked to a coding sequence if it is positioned so as to facilitate translation.

Generally, "operably linked" means that the DNA sequences being linked are contiguous, and, in the case of a secretory leader, contiguous and in reading phase. However, enhancers do not have to be contiguous. Linking is typically accomplished by ligation at convenient restriction sites. If such sites do not exist, synthetic oligonucleotide adaptors or linkers are used in accordance with conventional practice. Transcriptional and translational regulatory nucleic acid will generally be appropriate to the host cell used to express the metastatic colorectal cancer protein. Numerous types of appropriate expression vectors, and suitable regulatory sequences are known in the art for a variety of host cells.

In general, transcriptional and translational regulatory sequences may include, but are not limited to, promoter sequences, ribosomal binding sites, transcriptional start and stop sequences, translational start and stop sequences, and enhancer or activator sequences. In a preferred embodiment, the regulatory sequences include a promoter and transcriptional start and stop sequences.

Promoter sequences encode either constitutive or inducible promoters. The promoters may be either naturally occurring promoters or hybrid promoters. Hybrid promoters, which combine elements of more than one promoter, are also known in the art, and are useful in the present invention.

In addition, an expression vector may comprise additional elements. For example, the expression vector may have two replication systems, thus allowing it to be maintained in two organisms, e.g., in mammalian or insect cells for expression and in a procaryotic host for cloning and amplification. Furthermore, for integrating expression vectors, the expression vector contains at least one sequence homologous to the host cell genome, and preferably two homologous sequences which flank the expression construct. The integrating vector may be directed to a specific locus in the host cell by selecting the appropriate homologous sequence for inclusion in the vector. Constructs for integrating vectors are well known in the art (e.g., Fernandez & Hoeffler, supra).

In addition, in a preferred embodiment, the expression vector contains a selectable marker gene to allow the selection of transformed host cells. Selection genes are well known in the art and will vary with the host cell used.

The metastatic colorectal cancer proteins of the present invention are produced by culturing a host cell transformed with an expression vector containing nucleic acid encoding a metastatic colorectal cancer protein, under the appropriate conditions to induce or cause expression of the metastatic colorectal cancer protein. Conditions appropriate for metastatic colorectal cancer protein expression will vary with the choice of the expression vector and the host cell, and will be easily ascertained by one skilled in the art through routine experimentation or optimization. For example, the use of constitutive promoters in the expression vector will require optimizing the growth and proliferation of the host cell, while the use of an inducible promoter requires the appropriate growth conditions for induction. In addition, in some embodiments, the timing of the harvest is important. For example, the baculoviral systems used in insect cell expression are lytic viruses, and thus harvest time selection can be crucial for product yield.

Appropriate host cells include yeast, bacteria, archaebacteria, fungi, and insect and animal cells, including mammalian cells. Of particular interest are Saccharomyces cerevisiae and other yeasts, E. coli, Bacillus subtilis, Sf9 cells, C129 cells, 293 cells, Neurospora, BHK, CHO, COS, HeLa cells, HUVEC (human umbilical vein endothelial cells), THP1 cells (a macrophage cell line) and various other human cells and cell lines.

In a preferred embodiment, the metastatic colorectal cancer proteins are expressed in mammalian cells. Mammalian expression systems are also known in the art, and include retroviral and adenoviral systems. Of particular use as mammalian promoters are the promoters from mammalian viral genes, since the viral genes are often highly expressed and have a broad host range. Examples include the SV40 early promoter, mouse mammary tumor virus LTR promoter, adenovirus major late promoter, herpes simplex virus promoter, and the CMV promoter (see, e.g., Fernandez & Hoeffler, supra). Typically, transcription termination and polyadenylation sequences recognized by mammalian cells are regulatory regions located 3' to the translation stop codon and thus, together with the promoter elements, flank the coding sequence. Examples of transcription terminator and polyadenylation signals include those derived form SV40.

The methods of introducing exogenous nucleic acid into mammalian hosts, as well as other hosts, is well known in the art, and will vary with the host cell used.

Techniques include dextran-mediated transfection, calcium phosphate precipitation,

polybrene mediated transfection, protoplast fusion, electroporation, viral infection, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei.

In a preferred embodiment, metastatic colorectal cancer proteins are expressed in bacterial systems. Promoters from bacteriophage may also be used and are known in the art. In addition, synthetic promoters and hybrid promoters are also useful; e.g., the tac promoter is a hybrid of the trp and lac promoter sequences. Furthermore, a bacterial promoter can include naturally occurring promoters of non-bacterial origin that have the ability to bind bacterial RNA polymerase and initiate transcription. In addition to a functioning promoter sequence, an efficient ribosome binding site is desirable. The expression vector may also include a signal peptide sequence that provides for secretion of the metastatic colorectal cancer protein in bacteria. The protein is either secreted into the growth media (gram-positive bacteria) or into the periplasmic space, located between the inner and outer membrane of the cell (gram-negative bacteria). The bacterial expression vector may also include a selectable marker gene to allow for the selection of bacterial strains that have been transformed. Suitable selection genes include genes which render the bacteria resistant to drugs such as ampicillin, chloramphenicol, erythromycin, kanamycin, neomycin and tetracycline. Selectable markers also include biosynthetic genes, such as those in the histidine, tryptophan and leucine biosynthetic pathways. These components are assembled into expression vectors. Expression vectors for bacteria are well known in the art, and include vectors for Bacillus subtilis, E. coli, Streptococcus cremoris, and Streptococcus lividans, among others (e.g., Fernandez & Hoeffler, supra). The bacterial expression vectors are transformed into bacterial host cells using techniques well known in the art, such as calcium chloride treatment, electroporation, and others.

In one embodiment, metastatic colorectal cancer proteins are produced in insect cells. Expression vectors for the transformation of insect cells, and in particular, baculovirus-based expression vectors, are well known in the art.

In a preferred embodiment, metastatic colorectal cancer protein is produced in yeast cells. Yeast expression systems are well known in the art, and include expression vectors for Saccharomyces cerevisiae, Candida albicans and C. maltosa, Hansenula polymorpha, Kluyveromyces fragilis and K. lactis, Pichia guillerimondii and P. pastoris, Schizosaccharomyces pombe, and Yarrowia lipolytica.

The metastatic colorectal cancer protein may also be made as a fusion protein, using techniques well known in the art. Thus, e.g., for the creation of monoclonal antibodies,

if the desired epitope is small, the metastatic colorectal cancer protein may be fused to a carrier protein to form an immunogen. Alternatively, the metastatic colorectal cancer protein may be made as a fusion protein to increase expression for affinity purification purposes, or for other reasons. For example, when the metastatic colorectal cancer protein is a metastatic colorectal cancer peptide, the nucleic acid encoding the peptide may be linked to other nucleic acid for expression purposes.

In a preferred embodiment, the metastatic colorectal cancer protein is purified or isolated after expression. Metastatic colorectal cancer proteins may be isolated or purified in a variety of appropriate ways. Standard purification methods include electrophoretic, molecular, immunological and chromatographic techniques, including ion exchange, hydrophobic, affinity, and reverse-phase HPLC chromatography, and chromatofocusing. For example, the metastatic colorectal cancer protein may be purified using a standard antimetastatic colorectal cancer protein antibody column. Ultrafiltration and diafiltration techniques, in conjunction with protein concentration, are also useful. For general guidance in suitable purification techniques, see Scopes, *Protein Purification* (1982). The degree of purification necessary will vary depending on the use of the metastatic colorectal cancer protein. In some instances no purification will be necessary.

Once expressed and purified if necessary, the metastatic colorectal cancer proteins and nucleic acids are useful in a number of applications. They may be used as immunoselection reagents, as vaccine reagents, as screening agents, etc.

Variants of metastatic colorectal cancer proteins

In one embodiment, the metastatic colorectal cancer proteins are derivative or variant metastatic colorectal cancer proteins as compared to the wild-type sequence. That is, as outlined more fully below, the derivative metastatic colorectal cancer peptide will often contain at least one amino acid substitution, deletion or insertion, with amino acid substitutions being particularly preferred. The amino acid substitution, insertion or deletion may occur at a particular residue within the metastatic colorectal cancer peptide.

Also included within one embodiment of metastatic colorectal cancer proteins of the present invention are amino acid sequence variants. These variants typically fall into one or more of three classes: substitutional, insertional or deletional variants. These variants ordinarily are prepared by site specific mutagenesis of nucleotides in the DNA encoding the metastatic colorectal cancer protein, using cassette or PCR mutagenesis or other techniques, to produce DNA encoding the variant, and thereafter expressing the DNA in recombinant cell

culture as outlined above. However, variant metastatic colorectal cancer protein fragments having up to about 100-150 residues may be prepared by *in vitro* synthesis. Amino acid sequence variants are characterized by the predetermined nature of the variation, a feature that sets them apart from naturally occurring allelic or interspecies variation of the metastatic colorectal cancer protein amino acid sequence. The variants typically exhibit the same qualitative biological activity as the naturally occurring analogue, although variants can also be selected which have modified characteristics as will be more fully outlined below.

While the site or region for introducing an amino acid sequence variation is often predetermined, the mutation per se need not be predetermined. For example, in order to optimize the performance of a mutation at a given site, random mutagenesis may be conducted at the target codon or region and the expressed metastatic colorectal cancer variants screened for the optimal combination of desired activity. Techniques exist for making substitution mutations at predetermined sites in DNA having a known sequence, e.g., M13 primer mutagenesis and PCR mutagenesis. Screening of the mutants is done using assays of metastatic colorectal cancer protein activities.

Amino acid substitutions are typically of single residues; insertions usually will be on the order of from about 1 to 20 amino acids, although considerably larger insertions may be occasionally tolerated. Deletions range from about 1 to about 20 residues, although in some cases deletions may be much larger.

Substitutions, deletions, insertions or any combination thereof may be used to arrive at a final derivative. Generally these changes are done on a few amino acids to minimize the alteration of the molecule. Larger changes may be tolerated in certain circumstances. When small alterations in the characteristics of a metastatic colorectal cancer protein are desired, substitutions are generally made in accordance with the amino acid substitution chart provided in the definition section.

Variants typically exhibit the same qualitative biological activity and will elicit the same immune response as the naturally-occurring analog, although variants also are selected to modify the characteristics of the metastatic colorectal cancer proteins as needed. Alternatively, the variant may be designed or reorganized such that the biological activity of the metastatic colorectal cancer protein is altered. For example, glycosylation sites may be altered or removed.

Covalent modifications of metastatic colorectal cancer polypeptides are included within the scope of this invention. One type of covalent modification includes reacting targeted amino acid residues of a metastatic colorectal cancer polypeptide with an

organic derivatizing agent that is capable of reacting with selected side chains or the N-or C-terminal residues of a metastatic colorectal cancer polypeptide. Derivatization with bifunctional agents is useful, for instance, for crosslinking metastatic colorectal cancer polypeptides to a water-insoluble support matrix or surface for use in the method for purifying anti-metastatic colorectal cancer polypeptide antibodies or screening assays, as is more fully described below. Commonly used crosslinking agents include, e.g., 1,1-bis(diazoacetyl)-2-phenylethane, glutaraldehyde, N-hydroxysuccinimide esters, e.g., esters with 4-azidosalicylic acid, homobifunctional imidoesters, including disuccinimidyl esters such as 3,3'-dithiobis(succinimidylpropionate), bifunctional maleimides such as bis-N-maleimido-1,8-octane and agents such as methyl-3-((p-azidophenyl)dithio)propioimidate.

Other modifications include deamidation of glutaminyl and asparaginyl residues to the corresponding glutamyl and aspartyl residues, respectively, hydroxylation of proline and lysine, phosphorylation of hydroxyl groups of seryl, threonyl or tyrosyl residues, methylation of the γ -amino groups of lysine, arginine, and histidine side chains (Creighton, *Proteins: Structure and Molecular Properties*, pp. 79-86 (1983)), acetylation of the N-terminal amine, and amidation of any C-terminal carboxyl group.

Another type of covalent modification of the metastatic colorectal cancer polypeptide encompassed by this invention is an altered native glycosylation pattern of the polypeptide. "Altering the native glycosylation pattern" is intended herein to mean adding to or deleting one or more carbohydrate moieties of a native sequence metastatic colorectal cancer polypeptide. Glycosylation patterns can be altered in many ways. For example the use of different cell types to express metastatic colorectal cancer-associated sequences can result in different glycosylation patterns.

Addition of glycosylation sites to metastatic colorectal cancer polypeptides may also be accomplished by altering the amino acid sequence thereof. The alteration may be made, e.g., by the addition of, or substitution by, one or more serine or threonine residues to the native sequence metastatic colorectal cancer polypeptide (for O-linked glycosylation sites). The metastatic colorectal cancer amino acid sequence may optionally be altered through changes at the DNA level, particularly by mutating the DNA encoding the metastatic colorectal cancer polypeptide at preselected bases such that codons are generated that will translate into the desired amino acids.

Another means of increasing the number of carbohydrate moieties on the metastatic colorectal cancer polypeptide is by chemical or enzymatic coupling of glycosides

to the polypeptide. Such methods are described in the art, e.g., in WO 87/05330, and in Aplin & Wriston, CRC Crit. Rev. Biochem., pp. 259-306 (1981).

Removal of carbohydrate moieties present on the metastatic colorectal cancer polypeptide may be accomplished chemically or enzymatically or by mutational substitution of codons encoding for amino acid residues that serve as targets for glycosylation. Chemical deglycosylation techniques are known in the art and described, for instance, by Hakimuddin, et al., Arch. Biochem. Biophys., 259:52 (1987) and by Edge et al., Anal. Biochem., 118:131 (1981). Enzymatic cleavage of carbohydrate moieties on polypeptides can be achieved by the use of a variety of endo-and exo-glycosidases as described by Thotakura et al., Meth. Enzymol., 138:350 (1987).

Another type of covalent modification of metastatic colorectal cancer comprises linking the metastatic colorectal cancer polypeptide to one of a variety of nonproteinaceous polymers, e.g., polyethylene glycol, polypropylene glycol, or polyoxyalkylenes, in the manner set forth in U.S. Patent Nos. 4,640,835; 4,496,689; 4,301,144; 4,670,417; 4,791,192 or 4,179,337.

Metastatic colorectal cancer polypeptides of the present invention may also be modified in a way to form chimeric molecules comprising a metastatic colorectal cancer polypeptide fused to another, heterologous polypeptide or amino acid sequence. In one embodiment, such a chimeric molecule comprises a fusion of a metastatic colorectal cancer polypeptide with a tag polypeptide which provides an epitope to which an anti-tag antibody can selectively bind. The epitope tag is generally placed at the amino-or carboxyl-terminus of the metastatic colorectal cancer polypeptide. The presence of such epitope-tagged forms of a metastatic colorectal cancer polypeptide can be detected using an antibody against the tag polypeptide. Also, provision of the epitope tag enables the metastatic colorectal cancer polypeptide to be readily purified by affinity purification using an anti-tag antibody or another type of affinity matrix that binds to the epitope tag. In an alternative embodiment, the chimeric molecule may comprise a fusion of a metastatic colorectal cancer polypeptide with an immunoglobulin or a particular region of an immunoglobulin. For a bivalent form of the chimeric molecule, such a fusion could be to the Fc region of an IgG molecule.

Various tag polypeptides and their respective antibodies are well known and examples include poly-histidine (poly-his) or poly-histidine-glycine (poly-his-gly) tags; HIS6 and metal chelation tags, the flu HA tag polypeptide and its antibody 12CA5 (Field *et al.*, *Mol. Cell. Biol.* 8:2159-2165 (1988)); the c-myc tag and the 8F9, 3C7, 6E10, G4, B7 and 9E10 antibodies thereto (Evan *et al.*, *Molecular and Cellular Biology* 5:3610-3616 (1985));

and the Herpes Simplex virus glycoprotein D (gD) tag and its antibody (*Paborsky et al.*, *Protein Engineering* 3(6):547-553 (1990)). Other tag polypeptides include the Flag-peptide (*Hopp et al.*, *BioTechnology* 6:1204-1210 (1988)); the KT3 epitope peptide (Martin *et al.*, *Science* 255:192-194 (1992)); tubulin epitope peptide (Skinner *et al.*, *J. Biol. Chem.* 266:15163-15166 (1991)); and the T7 gene 10 protein peptide tag (Lutz-Freyermuth *et al.*, *Proc. Natl. Acad. Sci. USA* 87:6393-6397 (1990)).

Also included are other metastatic colorectal cancer proteins of the metastatic colorectal cancer family, and metastatic colorectal cancer proteins from other organisms, which are cloned and expressed as outlined below. Thus, probe or degenerate polymerase chain reaction (PCR) primer sequences may be used to find other related metastatic colorectal cancer proteins from primates or other organisms. As will be appreciated by those in the art, particularly useful probe and/or PCR primer sequences include unique areas of the metastatic colorectal cancer nucleic acid sequence. As is generally known in the art, preferred PCR primers are from about 15 to about 35 nucleotides in length, with from about 20 to about 30 being preferred, and may contain inosine as needed. PCR reaction conditions are well known in the art (e.g., Innis, PCR Protocols, *supra*).

Antibodies to metastatic colorectal cancer proteins

In a preferred embodiment, when a metastatic colorectal cancer protein is to be used to generate antibodies, e.g., for immunotherapy or immunodiagnosis, the metastatic colorectal cancer protein should share at least one epitope or determinant with the full length protein. By "epitope" or "determinant" herein is typically meant a portion of a protein which will generate and/or bind an antibody or T-cell receptor in the context of MHC. Thus, in most instances, antibodies made to a smaller metastatic colorectal cancer protein will be able to bind to the full-length protein, particularly linear epitopes. In a preferred embodiment, the epitope is unique; that is, antibodies generated to a unique epitope show little or no cross-reactivity.

Methods of preparing polyclonal antibodies are well known (e.g., Coligan, supra; and Harlow & Lane, supra). Polyclonal antibodies can be raised in a mammal, e.g., by one or more injections of an immunizing agent and, if desired, an adjuvant. Typically, the immunizing agent and/or adjuvant will be injected in the mammal by multiple subcutaneous or intraperitoneal injections. The immunizing agent may include a protein encoded by a nucleic acid of Tables 1-26 or fragment thereof or a fusion protein thereof. It may be useful to conjugate the immunizing agent to a protein known to be immunogenic in the mammal

being immunized. Immunogenic proteins include, e.g., keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, and soybean trypsin inhibitor. Adjuvants include, e.g., Freund's complete adjuvant and MPL-TDM adjuvant (monophosphoryl Lipid A, synthetic trehalose dicorynomycolate). The immunization protocol may be selected by one skilled in the art.

The antibodies may, alternatively, be monoclonal antibodies. Monoclonal antibodies may be prepared using hybridoma methods, such as those described by Kohler & Milstein, Nature 256:495 (1975). In a hybridoma method, a mouse, hamster, or other appropriate host animal, is typically immunized with an immunizing agent to elicit lymphocytes that produce or are capable of producing antibodies that will specifically bind to the immunizing agent. Alternatively, the lymphocytes may be immunized in vitro. The immunizing agent will typically include a polypeptide encoded by a nucleic acid of Tables 1-26, or fragment thereof, or a fusion protein thereof. Generally, either peripheral blood lymphocytes ("PBLs") are used if cells of human origin are desired, or spleen cells or lymph node cells are used if non-human mammalian sources are desired. The lymphocytes are then fused with an immortalized cell line using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell (Goding, Monoclonal Antibodies: Principles and Practice, pp. 59-103 (1986)). Immortalized cell lines are usually transformed mammalian cells, particularly myeloma cells of rodent, bovine and primate origin. Usually, rat or mouse myeloma cell lines are employed. The hybridoma cells may be cultured in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, immortalized cells. For example, if the parental cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine ("HAT medium"), which substances prevent the growth of HGPRT-deficient cells.

In one embodiment, the antibodies are bispecific antibodies. Bispecific antibodies are typically monoclonal, preferably human or humanized, antibodies that have binding specificities for at least two different antigens or that have binding specificities for two epitopes on the same antigen. In one embodiment, one of the binding specificities is for a protein encoded by a nucleic acid of Tables 1-26 or a fragment thereof, the other one is for any other antigen, and preferably for a cell-surface protein or receptor or receptor subunit, preferably one that is tumor specific. Alternatively, tetramer-type technology may create multivalent reagents.

In a preferred embodiment, the antibodies to metastatic colorectal cancer protein are capable of reducing or eliminating a biological function of a metastatic colorectal cancer protein, as is described below. That is, the addition of anti-metastatic colorectal cancer protein antibodies (either polyclonal or preferably monoclonal) to metastatic colorectal cancer tissue (or cells containing metastatic colorectal cancer) may reduce or eliminate the metastatic colorectal cancer. Generally, at least a 25% decrease in activity, growth, size or the like is preferred, with at least about 50% being particularly preferred and about a 95-100% decrease being especially preferred.

In a preferred embodiment the antibodies to the metastatic colorectal cancer proteins are humanized antibodies (e.g., Xenerex Biosciences, Mederex, Inc., Abgenix, Inc., Protein Design Labs, Inc.) Humanized forms of non-human (e.g., murine) antibodies are chimeric molecules of immunoglobulins, immunoglobulin chains or fragments thereof (such as Fv, Fab, Fab', F(ab')2 or other antigen-binding subsequences of antibodies) which contain minimal sequence derived from non-human immunoglobulin. Humanized antibodies include human immunoglobulins (recipient antibody) in which residues from a complementary determining region (CDR) of the recipient are replaced by residues from a CDR of a nonhuman species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Humanized antibodies may also comprise residues which are found neither in the recipient antibody nor in the imported CDR or framework sequences. In general, a humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin consensus sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin (Jones et al., Nature 321:522-525 (1986); Riechmann et al., Nature 332:323-329 (1988); and Presta, Curr. Op. Struct. Biol. 2:593-596 (1992)). Humanization can be essentially performed following the method of Winter and co-workers (Jones et al., Nature 321:522-525 (1986); Riechmann et al., Nature 332:323-327 (1988); Verhoeyen et al., Science 239:1534-1536 (1988)), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies (U.S. Patent No. 4,816,567), wherein substantially less than an intact

human variable domain has been substituted by the corresponding sequence from a non-human species.

Human-like antibodies can also be produced using various techniques known in the art, including phage display libraries (Hoogenboom & Winter, J. Mol. Biol. 227:381 (1991); Marks et al., J. Mol. Biol. 222:581 (1991)). The techniques of Cole et al. and Boerner et al. are also available for the preparation of human monoclonal antibodies (Cole et al., Monoclonal Antibodies and Cancer Therapy, p. 77 (1985) and Boerner et al., J. Immunol. 147(1):86-95 (1991)). Similarly, human antibodies can be made by introducing of human immunoglobulin loci into transgenic animals, e.g., mice in which the endogenous immunoglobulin genes have been partially or completely inactivated. Upon challenge, human antibody production is observed, which closely resembles that seen in humans in virtually all respects, including gene rearrangement, assembly, and antibody repertoire. This approach is described, e.g., in U.S. Patent Nos. 5,545,807; 5,545,806; 5,569,825; 5,625,126; 5,633,425; 5,661,016, and in the following scientific publications: Marks et al., Bio/Technology 10:779-783 (1992); Lonberg et al., Nature 368:856-859 (1994); Morrison, Nature 368:812-13 (1994); Fishwild et al., Nature Biotechnology 14:845-51 (1996); Neuberger, Nature Biotechnology 14:826 (1996); Lonberg & Huszar, Intern. Rev. Immunol. 13:65-93 (1995).

By immunotherapy is meant treatment of metastatic colorectal cancer with an antibody raised against a metastatic colorectal cancer proteins. As used herein, immunotherapy can be passive or active. Passive immunotherapy as defined herein is the passive transfer of antibody to a recipient (patient). Active immunization is the induction of antibody and/or T-cell responses in a recipient (patient). Induction of an immune response is the result of providing the recipient with an antigen to which antibodies are raised. The antigen may be provided by injecting a polypeptide against which antibodies are desired to be raised into a recipient, or contacting the recipient with a nucleic acid capable of expressing the antigen and under conditions for expression of the antigen, leading to an immune response.

In a preferred embodiment the metastatic colorectal cancer proteins against which antibodies are raised are secreted proteins as described above. Without being bound by theory, antibodies used for treatment, bind and prevent the secreted protein from binding to its receptor, thereby inactivating the secreted metastatic colorectal cancer protein.

In another preferred embodiment, the metastatic colorectal cancer protein to which antibodies are raised is a transmembrane protein. Without being bound by theory,

antibodies used for this treatment typically bind the extracellular domain of the metastatic colorectal cancer protein and prevent it from binding to other proteins, such as circulating ligands or cell-associated molecules. The antibody may cause down-regulation of the transmembrane metastatic colorectal cancer protein. The antibody may be a competitive, non-competitive or uncompetitive inhibitor of protein binding to the extracellular domain of the metastatic colorectal cancer protein. The antibody may be an antagonist of the metastatic colorectal cancer protein or may prevent activation of the transmembrane metastatic colorectal cancer protein. In some embodiments, when the antibody prevents the binding of other molecules to the metastatic colorectal cancer protein, the antibody prevents growth of the cell. The antibody may also be used to target or sensitize the cell to cytotoxic agents, including, but not limited to TNF-α, TNF-β, IL-1, INF-γ and IL-2, or chemotherapeutic agents including 5FU, vinblastine, actinomycin D, cisplatin, methotrexate, and the like. In some instances the antibody belongs to a sub-type that activates serum complement when complexed with the transmembrane protein thereby mediating cytotoxicity or antigendependent cytotoxicity (ADCC). Thus, metastatic colorectal cancer is treated by administering to a patient antibodies directed against the transmembrane metastatic colorectal cancer protein. Antibody-labeling may activate a co-toxin, localize a toxin payload, or otherwise provide means to locally ablate cells.

In another preferred embodiment, the antibody is conjugated to an effector moiety. The effector moiety can be any number of molecules, including labeling moieties such as radioactive labels or fluorescent labels, or can be a therapeutic moiety. In one aspect the therapeutic moiety is a small molecule that modulates the activity of the metastatic colorectal cancer protein. In another aspect the therapeutic moiety modulates the activity of molecules associated with or in close proximity to the metastatic colorectal cancer protein. The therapeutic moiety may inhibit enzymatic activity such as protease or collagenase activity associated with metastatic colorectal cancer.

In a preferred embodiment, the therapeutic moiety can also be a cytotoxic agent. In this method, targeting the cytotoxic agent to metastatic colorectal cancer tissue or cells results in a reduction in the number of afflicted cells, thereby reducing symptoms associated with metastatic colorectal cancer. Cytotoxic agents are numerous and varied and include, but are not limited to, cytotoxic drugs or toxins or active fragments of such toxins. Suitable toxins and their corresponding fragments include diphtheria A chain, exotoxin A chain, ricin A chain, abrin A chain, curcin, crotin, phenomycin, enomycin and the like.

Cytotoxic agents also include radiochemicals made by conjugating radioisotopes to antibodies raised against metastatic colorectal cancer proteins, or binding of a radionuclide to a chelating agent that has been covalently attached to the antibody. Targeting the therapeutic moiety to transmembrane metastatic colorectal cancer proteins not only serves to increase the local concentration of therapeutic moiety in the metastatic colorectal cancer afflicted area, but also serves to reduce deleterious side effects that may be associated with the therapeutic moiety.

In another preferred embodiment, the metastatic colorectal cancer protein against which the antibodies are raised is an intracellular protein. In this case, the antibody may be conjugated to a protein or other entity which facilitates entry into the cell. In one case, the antibody enters the cell by endocytosis. In another embodiment, a nucleic acid encoding the antibody is administered to the individual or cell. Moreover, wherein the metastatic colorectal cancer protein can be targeted within a cell, i.e., the nucleus, an antibody thereto contains a signal for that target localization, i.e., a nuclear localization signal.

The metastatic colorectal cancer antibodies of the invention specifically bind to metastatic colorectal cancer proteins. By "specifically bind" herein is meant that the antibodies bind to the protein with a K_d of at least about 0.1 mM, more usually at least about 1 μ M, preferably at least about 0.1 μ M or better, and most preferably, 0.01 μ M or better. Selectivity of binding is also important.

Detection of metastatic colorectal cancer sequence for diagnostic and therapeutic applications

In one aspect, the RNA expression levels of genes are determined for different cellular states in the metastatic colorectal cancer phenotype. Expression levels of genes in normal tissue (i.e., not undergoing metastatic colorectal cancer) and in metastatic colorectal cancer tissue (and in some cases, for varying severities of metastatic colorectal cancer that relate to prognosis, as outlined below) are evaluated to provide expression profiles. An expression profile of a particular cell state or point of development is essentially a "fingerprint" of the state. While two states may have any particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is reflective of the state of the cell. By comparing expression profiles of cells in different states, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained. Then, diagnosis may

be performed or confirmed to determine whether a tissue sample has the gene expression profile of normal or cancerous tissue. This will provide for molecular diagnosis of related conditions.

"Differential expression," or grammatical equivalents as used herein, refers to qualitative or quantitative differences in the temporal and/or cellular gene expression patterns within and among cells and tissue. Thus, a differentially expressed gene can qualitatively have its expression altered, including an activation or inactivation, in, e.g., normal versus metastatic colorectal cancer tissue. Genes may be turned on or turned off in a particular state, relative to another state thus permitting comparison of two or more states. A qualitatively regulated gene will exhibit an expression pattern within a state or cell type which is detectable by standard techniques. Some genes will be expressed in one state or cell type, but not in both. Alternatively, the difference in expression may be quantitative, e.g., in that expression is increased or decreased; i.e., gene expression is either upregulated, resulting in an increased amount of transcript, or downregulated, resulting in a decreased amount of transcript. The degree to which expression differs need only be large enough to quantify via standard characterization techniques as outlined below, such as by use of Affymetrix GeneChipTM expression arrays, Lockhart, Nature Biotechnology 14:1675-1680 (1996), hereby expressly incorporated by reference. Other techniques include, but are not limited to, quantitative reverse transcriptase PCR, northern analysis and RNase protection. As outlined above, preferably the change in expression (i.e., upregulation or downregulation) is typically at least about 50%, more preferably at least about 100%, more preferably at least about 150%, more preferably at least about 200%, with from 300 to at least 1000% being especially preferred.

Evaluation may be at the gene transcript, or the protein level. The amount of gene expression may be monitored using nucleic acid probes to the DNA or RNA equivalent of the gene transcript, and the quantification of gene expression levels, or, alternatively, the final gene product itself (protein) can be monitored, e.g., with antibodies to the metastatic colorectal cancer protein and standard immunoassays (ELISAs, etc.) or other techniques, including mass spectroscopy assays, 2D gel electrophoresis assays, etc. Proteins corresponding to metastatic colorectal cancer genes, i.e., those identified as being important in a metastatic colorectal cancer phenotype, can be evaluated in a metastatic colorectal cancer diagnostic test.

In a preferred embodiment, gene expression monitoring is performed simultaneously on a number of genes.

The metastatic colorectal cancer nucleic acid probes may be attached to biochips as outlined herein for the detection and quantification of metastatic colorectal cancer sequences in a particular cell. The assays are further described below in the example. PCR techniques can be used to provide greater sensitivity. Multiple protein expression monitoring can be performed as well. Similarly, these assays may be performed on an individual basis as well.

In a preferred embodiment nucleic acids encoding the metastatic colorectal cancer protein are detected. Although DNA or RNA encoding the metastatic colorectal cancer protein may be detected, of particular interest are methods wherein an mRNA encoding a metastatic colorectal cancer protein is detected. Probes to detect mRNA can be a nucleotide/deoxynucleotide probe that is complementary to and hybridizes with the mRNA and includes, but is not limited to, oligonucleotides, cDNA or RNA. Probes also should contain a detectable label, as defined herein. In one method the mRNA is detected after immobilizing the nucleic acid to be examined on a solid support such as nylon membranes and hybridizing the probe with the sample. Following washing to remove the nonspecifically bound probe, the label is detected. In another method detection of the mRNA is performed in situ. In this method permeabilized cells or tissue samples are contacted with a detectably labeled nucleic acid probe for sufficient time to allow the probe to hybridize with the target mRNA. Following washing to remove the non-specifically bound probe, the label is detected. For example a digoxygenin labeled riboprobe (RNA probe) that is complementary to the mRNA encoding a metastatic colorectal cancer protein is detected by binding the digoxygenin with an anti-digoxygenin secondary antibody and developed with nitro blue tetrazolium and 5-bromo-4-chloro-3-indoyl phosphate.

In a preferred embodiment, various proteins from the three classes of proteins as described herein (secreted, transmembrane or intracellular proteins) are used in diagnostic assays. The metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing metastatic colorectal cancer sequences are used in diagnostic assays. This can be performed on an individual gene or corresponding polypeptide level. In a preferred embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes and/or corresponding polypeptides.

As described and defined herein, metastatic colorectal cancer proteins, including intracellular, transmembrane or secreted proteins, find use as markers of metastatic colorectal cancer. Detection of these proteins in putative metastatic colorectal cancer tissue

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allows for detection or diagnosis of metastatic colorectal cancer. In one embodiment, antibodies are used to detect metastatic colorectal cancer proteins. A preferred method separates proteins from a sample by electrophoresis on a gel (typically a denaturing and reducing protein gel, but may be another type of gel, including isoelectric focusing gels and the like). Following separation of proteins, the metastatic colorectal cancer protein is detected, e.g., by immunoblotting with antibodies raised against the metastatic colorectal cancer protein. Methods of immunoblotting are well known to those of ordinary skill in the art.

In another preferred method, antibodies to the metastatic colorectal cancer protein find use in *in situ* imaging techniques, e.g., in histology (e.g., *Methods in Cell Biology: Antibodies in Cell Biology*, volume 37 (Asai, ed. 1993)). In this method cells are contacted with from one to many antibodies to the metastatic colorectal cancer protein(s). Following washing to remove non-specific antibody binding, the presence of the antibody or antibodies is detected. In one embodiment the antibody is detected by incubating with a secondary antibody that contains a detectable label, e.g., multicolor fluorescence or confocal imaging. In another method the primary antibody to the metastatic colorectal cancer protein(s) contains a detectable label, e.g., an enzyme marker that can act on a substrate. In another preferred embodiment each one of multiple primary antibodies contains a distinct and detectable label. This method finds particular use in simultaneous screening for a plurality of metastatic colorectal cancer proteins. Many other histological imaging techniques are also provided by the invention.

In a preferred embodiment the label is detected in a fluorometer which has the ability to detect and distinguish emissions of different wavelengths. In addition, a fluorescence activated cell sorter (FACS) can be used in the method.

In another preferred embodiment, antibodies find use in diagnosing metastatic colorectal cancer from blood, serum, plasma, stool, and other samples. Such samples, therefore, are useful as samples to be probed or tested for the presence of metastatic colorectal cancer proteins. Antibodies can be used to detect a metastatic colorectal cancer protein by previously described immunoassay techniques including ELISA, immunoblotting (western blotting), immunoprecipitation, BIACORE technology and the like. Conversely, the presence of antibodies may indicate an immune response against an endogenous metastatic colorectal cancer protein or vaccine.

In a preferred embodiment, in situ hybridization of labeled metastatic colorectal cancer nucleic acid probes to tissue arrays is done. For example, arrays of tissue

samples, including metastatic colorectal cancer tissue and/or normal tissue, are made. In situ hybridization (see, e.g., Ausubel, supra) is then performed. When comparing the fingerprints between an individual and a standard, the skilled artisan can make a diagnosis, a prognosis, or a prediction based on the findings. It is further understood that the genes which indicate the diagnosis may differ from those which indicate the prognosis and molecular profiling of the condition of the cells may lead to distinctions between responsive or refractory conditions or may be predictive of outcomes.

In a preferred embodiment, the metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing metastatic colorectal cancer sequences are used in prognosis assays. As above, gene expression profiles can be generated that correlate to metastatic colorectal cancer, in terms of long term prognosis. Again, this may be done on either a protein or gene level, with the use of genes being preferred. As above, metastatic colorectal cancer probes may be attached to biochips for the detection and quantification of metastatic colorectal cancer sequences in a tissue or patient. The assays proceed as outlined above for diagnosis. PCR method may provide more sensitive and accurate quantification.

Assays for therapeutic compounds

In a preferred embodiment members of the three classes of proteins as described herein are used in drug screening assays. The metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing metastatic colorectal cancer sequences are used in drug screening assays or by evaluating the effect of drug candidates on a "gene expression profile" or expression profile of polypeptides. In a preferred embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent (e.g., Zlokarnik, et al., Science 279:84-8 (1998); Heid, Genome Res 6:986-94, 1996).

In a preferred embodiment, the metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing the native or modified metastatic colorectal cancer proteins are used in screening assays. That is, the present invention provides novel methods for screening for compositions which modulate the metastatic colorectal cancer phenotype or an identified physiological function of a metastatic colorectal cancer protein. As above, this can be done on an individual gene level or by evaluating the effect of drug candidates on a "gene expression profile". In a preferred embodiment, the expression profiles are used, preferably in conjunction with high throughput

screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent, see Zlokarnik, supra.

Having identified the differentially expressed genes herein, a variety of assays may be applied. In a preferred embodiment, assays may be run on an individual gene or protein level. That is, having identified a particular gene with altered regulation in metastatic colorectal cancer, test compounds can be screened for the ability to modulate gene expression or for binding to the metastatic colorectal cancer protein. "Modulation" thus includes an increase or a decrease in gene expression. The preferred amount of modulation will depend on the original change of the gene expression in normal versus tissue undergoing metastatic colorectal cancer, with changes of at least 10%, preferably 50%, more preferably 100-300%, and in some embodiments 300-1000% or greater. Thus, if a gene exhibits a 4-fold increase in metastatic colorectal cancer tissue compared to normal tissue, a decrease of about four-fold is often desired; similarly, a 10-fold decrease in metastatic colorectal cancer tissue compared to normal tissue often provides a target value of a 10-fold increase in expression to be induced by the test compound.

The amount of gene expression may be monitored using nucleic acid probes and the quantification of gene expression levels, or, alternatively, the gene product itself can be monitored, e.g., through the use of antibodies to the metastatic colorectal cancer protein and standard immunoassays. Proteomics and separation techniques may also allow quantification of expression.

In a preferred embodiment, gene or protein expression monitoring of a number of entities, i.e., an expression profile, is monitored simultaneously. Such profiles will typically involve a plurality of those entities described herein.

In this embodiment, the metastatic colorectal cancer nucleic acid probes are attached to biochips as outlined herein for the detection and quantification of metastatic colorectal cancer sequences in a particular cell. Alternatively, PCR may be used. Thus, a series, e.g., of microtiter plate, may be used with dispensed primers in desired wells. A PCR reaction can then be performed and analyzed for each well.

Expression monitoring can be performed to identify compounds that modify the expression of one or more metastatic colorectal cancer-associated sequences, e.g., a polynucleotide sequence set out in Tables 1-26. Generally, in a preferred embodiment, a test compound is added to the cells prior to analysis. Moreover, screens are also provided to identify agents that modulate metastatic colorectal cancer, modulate metastatic colorectal

cancer proteins, bind to a metastatic colorectal cancer protein, or interfere with the binding of a metastatic colorectal cancer protein and an antibody, substrate, or other binding partner.

The term "test compound" or "drug candidate" or "modulator" or grammatical equivalents as used herein describes any molecule, e.g., protein, oligopeptide, small organic molecule, polysaccharide, polynucleotide, etc., to be tested for the capacity to directly or indirectly alter the metastatic colorectal cancer phenotype or the expression of a metastatic colorectal cancer sequence, e.g., a nucleic acid or protein sequence. In preferred embodiments, modulators alter expression profiles of nucleic acids or proteins provided herein. In one embodiment, the modulator suppresses a metastatic colorectal cancer phenotype, e.g., to a normal tissue fingerprint. In another embodiment, a modulator induces a metastatic colorectal cancer phenotype. Generally, a plurality of assay mixtures are run in parallel with different agent concentrations to obtain a differential response to the various concentrations. Typically, one of these concentrations serves as a negative control, i.e., at zero concentration or below the level of detection.

In one aspect, a modulator will neutralize the effect of a metastatic colorectal cancer protein. By "neutralize" is meant that activity of a protein and the consequent effect on the cell is inhibited or blocked.

In certain embodiments, combinatorial libraries of potential modulators will be screened for an ability to bind to a metastatic colorectal cancer polypeptide or to modulate activity. Conventionally, new chemical entities with useful properties are generated by identifying a chemical compound (called a "lead compound") with some desirable property or activity, e.g., inhibiting activity, creating variants of the lead compound, and evaluating the property and activity of those variant compounds. Often, high throughput screening (HTS) methods are employed for such an analysis.

In one preferred embodiment, high throughput screening methods involve providing a library containing a large number of potential therapeutic compounds (candidate compounds). Such "combinatorial chemical libraries" are then screened in one or more assays to identify those library members (particular chemical species or subclasses) that display a desired characteristic activity. The compounds thus identified can serve as conventional "lead compounds" or can themselves be used as potential or actual therapeutics.

A combinatorial chemical library is a collection of diverse chemical compounds generated by either chemical synthesis or biological synthesis by combining a number of chemical "building blocks" such as reagents. For example, a linear combinatorial chemical library, such as a polypeptide (e.g., mutein) library, is formed by combining a set of

chemical building blocks called amino acids in every possible way for a given compound length (i.e., the number of amino acids in a polypeptide compound). Millions of chemical compounds can be synthesized through such combinatorial mixing of chemical building blocks (Gallop et al., J. Med. Chem. 37(9):1233-1251 (1994)).

Preparation and screening of combinatorial chemical libraries is well known to those of skill in the art. Such combinatorial chemical libraries include, but are not limited to, peptide libraries (see, e.g., U.S. Patent No. 5,010,175, Furka, Pept. Prot. Res. 37:487-493 (1991), Houghton et al., Nature, 354:84-88 (1991)), peptoids (PCT Publication No WO 91/19735), encoded peptides (PCT Publication WO 93/20242), random bio-oligomers (PCT Publication WO 92/00091), benzodiazepines (U.S. Pat. No. 5,288,514), diversomers such as hydantoins, benzodiazepines and dipeptides (Hobbs et al., Proc. Nat. Acad. Sci. USA 90:6909-6913 (1993)), vinylogous polypeptides (Hagihara et al., J. Amer. Chem. Soc. 114:6568 (1992)), nonpeptidal peptidomimetics with a Beta-D-Glucose scaffolding (Hirschmann et al., J. Amer. Chem. Soc. 114:9217-9218 (1992)), analogous organic syntheses of small compound libraries (Chen et al., J. Amer. Chem. Soc. 116:2661 (1994)), oligocarbamates (Cho, et al., Science 261:1303 (1993)), and/or peptidyl phosphonates (Campbell et al., J. Org. Chem. 59:658 (1994)). See, generally, Gordon et al., J. Med. Chem. 37:1385 (1994), nucleic acid libraries (see, e.g., Strategene, Corp.), peptide nucleic acid libraries (see, e.g., U.S. Patent 5,539,083), antibody libraries (see, e.g., Vaughn et al., Nature Biotechnology 14(3):309-314 (1996), and PCT/US96/10287), carbohydrate libraries (see, e.g., Liang et al., Science 274:1520-1522 (1996), and U.S. Patent No. 5,593,853), and small organic molecule libraries (see, e.g., benzodiazepines, Baum, C&EN, Jan 18, page 33 (1993); isoprenoids, U.S. Patent No. 5,569,588; thiazolidinones and metathiazanones, U.S. Patent No. 5,549,974; pyrrolidines, U.S. Patent Nos. 5,525,735 and 5,519,134; morpholino compounds, U.S. Patent No. 5,506,337; benzodiazepines, U.S. Patent No. 5,288,514; and the like).

Devices for the preparation of combinatorial libraries are commercially available (*see, e.g.*, 357 MPS, 390 MPS, Advanced Chem Tech, Louisville KY, Symphony, Rainin, Woburn, MA, 433A Applied Biosystems, Foster City, CA, 9050 Plus, Millipore, Bedford, MA).

A number of well known robotic systems have also been developed for solution phase chemistries. These systems include automated workstations like the automated synthesis apparatus developed by Takeda Chemical Industries, LTD. (Osaka, Japan) and many robotic systems utilizing robotic arms (Zymate II, Zymark Corporation, Hopkinton, Mass.; Orca, Hewlett-Packard, Palo Alto, Calif.), which mimic the manual

synthetic operations performed by a chemist. The above devices, with appropriate modification, are suitable for use with the present invention. In addition, numerous combinatorial libraries are themselves commercially available (*see, e.g.*, ComGenex, Princeton, N.J., Asinex, Moscow, Ru, Tripos, Inc., St. Louis, MO, ChemStar, Ltd, Moscow, RU, 3D Pharmaceuticals, Exton, PA, Martek Biosciences, Columbia, MD, etc.).

The assays to identify modulators are amenable to high throughput screening. Preferred assays thus detect modulation of metastatic colorectal cancer gene transcription, polypeptide expression, and polypeptide activity.

High throughput assays for evaluating the presence, absence, quantification, or other properties of particular nucleic acids or protein products are well known to those of skill in the art. Similarly, binding assays and reporter gene assays are similarly well known. Thus, e.g., U.S. Patent No. 5,559,410 discloses high throughput screening methods for proteins, U.S. Patent No. 5,585,639 discloses high throughput screening methods for nucleic acid binding (i.e., in arrays), while U.S. Patent Nos. 5,576,220 and 5,541,061 disclose high throughput methods of screening for ligand/antibody binding.

In addition, high throughput screening systems are commercially available (see, e.g., Zymark Corp., Hopkinton, MA; Air Technical Industries, Mentor, OH; Beckman Instruments, Inc. Fullerton, CA; Precision Systems, Inc., Natick, MA, etc.). These systems typically automate procedures, including sample and reagent pipetting, liquid dispensing, timed incubations, and final readings of the microplate in detector(s) appropriate for the assay. These configurable systems provide high throughput and rapid start up as well as a high degree of flexibility and customization. The manufacturers of such systems provide detailed protocols for various high throughput systems. Thus, e.g., Zymark Corp. provides technical bulletins describing screening systems for detecting the modulation of gene transcription, ligand binding, and the like.

In one embodiment, modulators are proteins, often naturally occurring proteins or fragments of naturally occurring proteins. Thus, e.g., cellular extracts containing proteins, or random or directed digests of proteinaceous cellular extracts, may be used. In this way libraries of proteins may be made for screening in the methods of the invention. Particularly preferred in this embodiment are libraries of bacterial, fungal, viral, and mammalian proteins, with the latter being preferred, and human proteins being especially preferred. Particularly useful test compound will be directed to the class of proteins to which the target belongs, e.g., substrates for enzymes or ligands and receptors.

In a preferred embodiment, modulators are peptides of from about 5 to about 30 amino acids, with from about 5 to about 20 amino acids being preferred, and from about 7 to about 15 being particularly preferred. The peptides may be digests of naturally occurring proteins as is outlined above, random peptides, or "biased" random peptides. By "randomized" or grammatical equivalents herein is meant that the nucleic acid or peptide consists of essentially random sequences of nucleotides and amino acids, respectively. Since these random peptides (or nucleic acids, discussed below) are often chemically synthesized, they may incorporate any nucleotide or amino acid at any position. The synthetic process can be designed to generate randomized proteins or nucleic acids, to allow the formation of all or most of the possible combinations over the length of the sequence, thus forming a library of randomized candidate bioactive proteinaceous agents.

In one embodiment, the library is fully randomized, with no sequence preferences or constants at any position. In a preferred embodiment, the library is biased. That is, some positions within the sequence are either held constant, or are selected from a limited number of possibilities. In a preferred embodiment, the nucleotides or amino acid residues are randomized within a defined class, e.g., of hydrophobic amino acids, hydrophilic residues, sterically biased (either small or large) residues, towards the creation of nucleic acid binding domains, the creation of cysteines, for cross-linking, prolines for SH-3 domains, serines, threonines, tyrosines or histidines for phosphorylation sites, etc.

Modulators of metastatic colorectal cancer can also be nucleic acids, as defined above.

As described above generally for proteins, nucleic acid modulating agents may be naturally occurring nucleic acids, random nucleic acids, or "biased" random nucleic acids. Digests of procaryotic or eucaryotic genomes may be used as is outlined above for proteins.

In a preferred embodiment, the candidate compounds are organic chemical moieties, a wide variety of which are available in the literature.

After a candidate agent has been added and the cells allowed to incubate for some period of time, the sample containing a target sequence is analyzed. If required, the target sequence is prepared using known techniques. For example, the sample may be treated to lyse the cells, using known lysis buffers, electroporation, etc., with purification and/or amplification such as PCR performed as appropriate. For example, an *in vitro* transcription with labels covalently attached to the nucleotides is performed. Generally, the nucleic acids are labeled with biotin-FITC or PE, or with cy3 or cy5.

In a preferred embodiment, the target sequence is labeled with, e.g., a fluorescent, a chemiluminescent, a chemical, or a radioactive signal, to provide a means of detecting the target sequence's specific binding to a probe. The label also can be an enzyme, such as, alkaline phosphatase or horseradish peroxidase, which when provided with an appropriate substrate produces a product that can be detected. Alternatively, the label can be a labeled compound or small molecule, such as an enzyme inhibitor, that binds but is not catalyzed or altered by the enzyme. The label also can be a moiety or compound, such as, an epitope tag or biotin which specifically binds to streptavidin. For the example of biotin, the streptavidin is labeled as described above, thereby, providing a detectable signal for the bound target sequence. Unbound labeled streptavidin is typically removed prior to analysis.

Nucleic acid assays can be direct hybridization assays or can comprise "sandwich assays", which include the use of multiple probes, as is generally outlined in U.S. Patent Nos. 5,681,702, 5,597,909, 5,545,730, 5,594,117, 5,591,584, 5,571,670, 5,580,731, 5,571,670, 5,591,584, 5,624,802, 5,635,352, 5,594,118, 5,359,100, 5,124,246 and 5,681,697, all of which are hereby incorporated by reference. In this embodiment, in general, the target nucleic acid is prepared as outlined above, and then added to the biochip comprising a plurality of nucleic acid probes, under conditions that allow the formation of a hybridization complex.

A variety of hybridization conditions may be used in the present invention, including high, moderate and low stringency conditions as outlined above. The assays are generally run under stringency conditions which allow formation of the label probe hybridization complex only in the presence of target. Stringency can be controlled by altering a step parameter that is a thermodynamic variable, including, but not limited to, temperature, formamide concentration, salt concentration, chaotropic salt concentration, pH, organic solvent concentration, etc.

These parameters may also be used to control non-specific binding, as is generally outlined in U.S. Patent No. 5,681,697. Thus it may be desirable to perform certain steps at higher stringency conditions to reduce non-specific binding.

The reactions outlined herein may be accomplished in a variety of ways. Components of the reaction may be added simultaneously, or sequentially, in different orders, with preferred embodiments outlined below. In addition, the reaction may include a variety of other reagents. These include salts, buffers, neutral proteins, e.g., albumin, detergents, etc. which may be used to facilitate optimal hybridization and detection, and/or reduce non-specific or background interactions. Reagents that otherwise improve the efficiency of the

assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may also be used as appropriate, depending on the sample preparation methods and purity of the target.

The assay data are analyzed to determine the expression levels, and changes in expression levels as between states, of individual genes, forming a gene expression profile.

Screens are performed to identify modulators of the metastatic colorectal cancer phenotype. In one embodiment, screening is performed to identify modulators that can induce or suppress a particular expression profile, thus preferably generating the associated phenotype. In another embodiment, e.g., for diagnostic applications, having identified differentially expressed genes important in a particular state, screens can be performed to identify modulators that alter expression of individual genes. In an another embodiment, screening is performed to identify modulators that alter a biological function of the expression product of a differentially expressed gene. Again, having identified the importance of a gene in a particular state, screens are performed to identify agents that bind and/or modulate the biological activity of the gene product, or evaluate genetic polymorphisms.

Genes can be screened for those that are induced in response to a candidate agent. After identifying a modulator based upon its ability to suppress a metastatic colorectal cancer expression pattern leading to a normal expression pattern, or to modulate a single metastatic colorectal cancer gene expression profile so as to mimic the expression of the gene from normal tissue, a screen as described above can be performed to identify genes that are specifically modulated in response to the agent. Comparing expression profiles between normal tissue and agent treated metastatic colorectal cancer tissue reveals genes that are not expressed in normal tissue or metastatic colorectal cancer tissue, but are expressed in agent treated tissue. These agent-specific sequences can be identified and used by methods described herein for metastatic colorectal cancer genes or proteins. In particular these sequences and the proteins they encode find use in marking or identifying agent treated cells. In addition, antibodies can be raised against the agent induced proteins and used to target novel therapeutics to the treated metastatic colorectal cancer tissue sample.

Thus, in one embodiment, a test compound is administered to a population of metastatic colorectal cancer cells, that have an associated metastatic colorectal cancer expression profile. By "administration" or "contacting" herein is meant that the candidate agent is added to the cells in such a manner as to allow the agent to act upon the cell, whether by uptake and intracellular action, or by action at the cell surface. In some embodiments, nucleic acid encoding a proteinaceous candidate agent (i.e., a peptide) may be put into a viral

construct such as an adenoviral or retroviral construct, and added to the cell, such that expression of the peptide agent is accomplished, e.g., PCT US97/01019. Regulatable gene therapy systems can also be used.

Once the test compound has been administered to the cells, the cells can be washed if desired and are allowed to incubate under preferably physiological conditions for some period of time. The cells are then harvested and a new gene expression profile is generated, as outlined herein.

Thus, e.g., metastatic colorectal cancer tissue may be screened for agents that modulate, e.g., induce or suppress the metastatic colorectal cancer phenotype. A change in at least one gene, preferably many, of the expression profile indicates that the agent has an effect on metastatic colorectal cancer activity. By defining such a signature for the metastatic colorectal cancer phenotype, screens for new drugs that alter the phenotype can be devised. With this approach, the drug target need not be known and need not be represented in the original expression screening platform, nor does the level of transcript for the target protein need to change.

Measure of metastatic colorectal cancer polypeptide activity, or of metastatic colorectal cancer or the metastatic colorectal cancer phenotype can be performed using a variety of assays. For example, the effects of the test compounds upon the function of the metastatic polypeptides can be measured by examining parameters described above. A suitable physiological change that affects activity can be used to assess the influence of a test compound on the polypeptides of this invention. When the functional consequences are determined using intact cells or animals, one can also measure a variety of effects such as, in the case of metastatic colorectal cancer associated with tumors, tumor growth, tumor metastasis, neovascularization, hormone release, transcriptional changes to both known and uncharacterized genetic markers (e.g., northern blots), changes in cell metabolism such as cell growth or pH changes, and changes in intracellular second messengers such as cGMP. In the assays of the invention, mammalian metastatic colorectal cancer polypeptide is typically used, e.g., mouse, preferably human.

Assays to identify compounds with modulating activity can be performed in vitro. For example, a colorectal cancer polypeptide is first contacted with a potential modulator and incubated for a suitable amount of time, e.g., from 0.5 to 48 hours. In one embodiment, the metastatic colorectal cancer polypeptide levels are determined in vitro by measuring the level of protein or mRNA. The level of protein is measured using immunoassays such as western blotting, ELISA and the like with an antibody that selectively

binds to the metastatic colorectal cancer polypeptide or a fragment thereof. For measurement of mRNA, amplification, e.g., using PCR, LCR, or hybridization assays, e.g., northern hybridization, RNAse protection, dot blotting, are preferred. The level of protein or mRNA is detected using directly or indirectly labeled detection agents, e.g., fluorescently or radioactively labeled nucleic acids, radioactively or enzymatically labeled antibodies, and the like, as described herein.

Alternatively, a reporter gene system can be devised using the metastatic colorectal cancer protein promoter operably linked to a reporter gene such as luciferase, green fluorescent protein, CAT, or β -gal. The reporter construct is typically transfected into a cell. After treatment with a potential modulator, the amount of reporter gene transcription, translation, or activity is measured according to standard techniques known to those of skill in the art.

In a preferred embodiment, as outlined above, screens may be done on individual genes and gene products (proteins). That is, having identified a particular differentially expressed gene as important in a particular state, screening of modulators of the expression of the gene or the gene product itself can be done. The gene products of differentially expressed genes are sometimes referred to herein as "metastatic colorectal cancer proteins." The metastatic colorectal cancer protein may be a fragment, or alternatively, be the full length protein to a fragment shown herein.

In one embodiment, screening for modulators of expression of specific genes is performed. Typically, the expression of only one or a few genes are evaluated. In another embodiment, screens are designed to first find compounds that bind to differentially expressed proteins. These compounds are then evaluated for the ability to modulate differentially expressed activity. Moreover, once initial candidate compounds are identified, variants can be further screened to better evaluate structure activity relationships.

In a preferred embodiment, binding assays are done. In general, purified or isolated gene product is used; that is, the gene products of one or more differentially expressed nucleic acids are made. For example, antibodies are generated to the protein gene products, and standard immunoassays are run to determine the amount of protein present. Alternatively, cells comprising the metastatic colorectal cancer proteins can be used in the assays.

Thus, in a preferred embodiment, the methods comprise combining a metastatic colorectal cancer protein and a candidate compound, and determining the binding of the compound to the metastatic colorectal cancer protein. Preferred embodiments utilize

the human metastatic colorectal cancer protein, although other mammalian proteins may also be used, e.g., for the development of animal models of human disease. In some embodiments, as outlined herein, variant or derivative metastatic colorectal cancer proteins may be used.

Generally, in a preferred embodiment of the methods herein, the metastatic colorectal cancer protein or the candidate agent is non-diffusably bound to an insoluble support having isolated sample receiving areas (e.g., a microtiter plate, an array, etc.). The insoluble supports may be made of any composition to which the compositions can be bound, is readily separated from soluble material, and is otherwise compatible with the overall method of screening. The surface of such supports may be solid or porous and of any convenient shape. Examples of suitable insoluble supports include microtiter plates, arrays, membranes and beads. These are typically made of glass, plastic (e.g., polystyrene), polysaccharides, nylon or nitrocellulose, teflon™, etc. Microtiter plates and arrays are especially convenient because a large number of assays can be carried out simultaneously, using small amounts of reagents and samples. The particular manner of binding of the composition is not crucial so long as it is compatible with the reagents and overall methods of the invention, maintains the activity of the composition and is nondiffusable. Preferred methods of binding include the use of antibodies (which do not sterically block either the ligand binding site or activation sequence when the protein is bound to the support), direct binding to "sticky" or ionic supports, chemical crosslinking, the synthesis of the protein or agent on the surface, etc. Following binding of the protein or agent, excess unbound material is removed by washing. The sample receiving areas may then be blocked through incubation with bovine serum albumin (BSA), casein or other innocuous protein or other moiety.

In a preferred embodiment, the metastatic colorectal cancer protein is bound to the support, and a test compound is added to the assay. Alternatively, the candidate agent is bound to the support and the metastatic colorectal cancer protein is added. Novel binding agents include specific antibodies, non-natural binding agents identified in screens of chemical libraries, peptide analogs, etc. Of particular interest are screening assays for agents that have a low toxicity for human cells. A wide variety of assays may be used for this purpose, including labeled *in vitro* protein-protein binding assays, electrophoretic mobility shift assays, immunoassays for protein binding, functional assays (phosphorylation assays, etc.) and the like.

The determination of the binding of the test modulating compound to the metastatic colorectal cancer protein may be done in a number of ways. In a preferred embodiment, the compound is labeled, and binding determined directly, e.g., by attaching all

or a portion of the metastatic colorectal cancer protein to a solid support, adding a labeled candidate agent (e.g., a fluorescent label), washing off excess reagent, and determining whether the label is present on the solid support. Various blocking and washing steps may be utilized as appropriate.

In some embodiments, only one of the components is labeled, e.g., the proteins (or proteinaceous candidate compounds) can be labeled. Alternatively, more than one component can be labeled with different labels, e.g., ¹²⁵I for the proteins and a fluorophor for the compound. Proximity reagents, e.g., quenching or energy transfer reagents are also useful.

In one embodiment, the binding of the test compound is determined by competitive binding assay. The competitor is a binding moiety known to bind to the target molecule (i.e., a metastatic colorectal cancer protein), such as an antibody, peptide, binding partner, ligand, etc. Under certain circumstances, there may be competitive binding between the compound and the binding moiety, with the binding moiety displacing the compound. In one embodiment, the test compound is labeled. Either the compound, or the competitor, or both, is added first to the protein for a time sufficient to allow binding, if present.

Incubations may be performed at a temperature which facilitates optimal activity, typically between 4 and 40°C. Incubation periods are typically optimized, e.g., to facilitate rapid high throughput screening. Typically between 0.1 and 1 hour will be sufficient. Excess reagent is generally removed or washed away. The second component is then added, and the presence or absence of the labeled component is followed, to indicate binding.

In a preferred embodiment, the competitor is added first, followed by the test compound. Displacement of the competitor is an indication that the test compound is binding to the metastatic colorectal cancer protein and thus is capable of binding to, and potentially modulating, the activity of the metastatic colorectal cancer protein. In this embodiment, either component can be labeled. Thus, e.g., if the competitor is labeled, the presence of label in the wash solution indicates displacement by the agent. Alternatively, if the test compound is labeled, the presence of the label on the support indicates displacement.

In an alternative embodiment, the test compound is added first, with incubation and washing, followed by the competitor. The absence of binding by the competitor may indicate that the test compound is bound to the metastatic colorectal cancer protein with a higher affinity. Thus, if the test compound is labeled, the presence of the label on the support, coupled with a lack of competitor binding, may indicate that the test compound is capable of binding to the metastatic colorectal cancer protein.

In a preferred embodiment, the methods comprise differential screening to identity agents that are capable of modulating the activity of the metastatic colorectal cancer proteins. In this embodiment, the methods comprise combining a metastatic colorectal cancer protein and a competitor in a first sample. A second sample comprises a test compound, a metastatic colorectal cancer protein, and a competitor. The binding of the competitor is determined for both samples, and a change, or difference in binding between the two samples indicates the presence of an agent capable of binding to the metastatic colorectal cancer protein and potentially modulating its activity. That is, if the binding of the competitor is different in the second sample relative to the first sample, the agent is capable of binding to the metastatic colorectal cancer protein.

Alternatively, differential screening is used to identify drug candidates that bind to the native metastatic colorectal cancer protein, but cannot bind to modified metastatic colorectal cancer proteins. The structure of the metastatic colorectal cancer protein may be modeled, and used in rational drug design to synthesize agents that interact with that site. Drug candidates that affect the activity of a metastatic colorectal cancer protein are also identified by screening drugs for the ability to either enhance or reduce the activity of the protein.

Positive controls and negative controls may be used in the assays. Preferably control and test samples are performed in at least triplicate to obtain statistically significant results. Incubation of all samples is for a time sufficient for the binding of the agent to the protein. Following incubation, samples are washed free of non-specifically bound material and the amount of bound, generally labeled agent determined. For example, where a radiolabel is employed, the samples may be counted in a scintillation counter to determine the amount of bound compound.

A variety of other reagents may be included in the screening assays. These include reagents like salts, neutral proteins, e.g., albumin, detergents, etc. which may be used to facilitate optimal protein-protein binding and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used. The mixture of components may be added in an order that provides for the requisite binding.

In a preferred embodiment, the invention provides methods for screening for a compound capable of modulating the activity of a metastatic colorectal cancer protein. The methods comprise adding a test compound, as defined above, to a cell comprising metastatic colorectal cancer proteins. Preferred cell types include almost any cell. The cells contain a

recombinant nucleic acid that encodes a metastatic colorectal cancer protein. In a preferred embodiment, a library of candidate agents are tested on a plurality of cells.

In one aspect, the assays are evaluated in the presence or absence or previous or subsequent exposure of physiological signals, e.g., hormones, antibodies, peptides, antigens, cytokines, growth factors, action potentials, pharmacological agents including chemotherapeutics, radiation, carcinogenics, or other cells (i.e. cell-cell contacts). In another example, the determinations are determined at different stages of the cell cycle process.

In this way, compounds that modulate metastatic colorectal cancer agents are identified. Compounds with pharmacological activity are able to enhance or interfere with the activity of the metastatic colorectal cancer protein. Once identified, similar structures are evaluated to identify critical structural feature of the compound.

In one embodiment, a method of inhibiting metastatic colorectal cancer cell division is provided. The method comprises administration of a metastatic colorectal cancer inhibitor. In another embodiment, a method of inhibiting metastatic colorectal cancer is provided. The method comprises administration of a metastatic colorectal cancer inhibitor. In a further embodiment, methods of treating cells or individuals with metastatic colorectal cancer are provided. The method comprises administration of a metastatic colorectal cancer inhibitor.

A variety of cell growth, proliferation, and metastasis assays are known to those of skill in the art, as described below.

Soft agar growth or colony formation in suspension

Normal cells require a solid substrate to attach and grow. When the cells are transformed, they lose this phenotype and grow detached from the substrate. For example, transformed cells can grow in stirred suspension culture or suspended in semi-solid media, such as semi-solid or soft agar. The transformed cells, when transfected with tumor suppressor genes, regenerate normal phenotype and require a solid substrate to attach and grow. Soft agar growth or colony formation in suspension assays can be used to identify modulators of metastatic colorectal cancer sequences, which when expressed in host cells, inhibit abnormal cellular proliferation and transformation. A therapeutic compound would reduce or eliminate the host cells' ability to grow in stirred suspension culture or suspended in semi-solid media, such as semi-solid or soft.

Techniques for soft agar growth or colony formation in suspension assays are described in Freshney, Culture of Animal Cells a Manual of Basic Technique (3rd ed., 1994),

herein incorporated by reference. See also, the methods section of Garkavtsev et al. (1996), supra, herein incorporated by reference.

Contact inhibition and density limitation of growth

Normal cells typically grow in a flat and organized pattern in a petri dish until they touch other cells. When the cells touch one another, they are contact inhibited and stop growing. When cells are transformed, however, the cells are not contact inhibited and continue to grow to high densities in disorganized foci. Thus, the transformed cells grow to a higher saturation density than normal cells. This can be detected morphologically by the formation of a disoriented monolayer of cells or rounded cells in foci within the regular pattern of normal surrounding cells. Alternatively, labeling index with (³H)-thymidine at saturation density can be used to measure density limitation of growth. See Freshney (1994), supra. The transformed cells, when transfected with tumor suppressor genes, regenerate a normal phenotype and become contact inhibited and would grow to a lower density.

In this assay, labeling index with (³H)-thymidine at saturation density is a preferred method of measuring density limitation of growth. Transformed host cells are transfected with a metastatic colorectal cancer-associated sequence and are grown for 24 hours at saturation density in non-limiting medium conditions. The percentage of cells labeling with (³H)-thymidine is determined autoradiographically. *See*, Freshney (1994), *supra*.

Growth factor or serum dependence

Transformed cells have a lower serum dependence than their normal counterparts (see, e.g., Temin, J. Natl. Cancer Insti. 37:167-175 (1966); Eagle et al., J. Exp. Med. 131:836-879 (1970)); Freshney, supra. This is in part due to release of various growth factors by the transformed cells. Growth factor or serum dependence of transformed host cells can be compared with that of control.

Tumor specific markers levels

Tumor cells release an increased amount of certain factors (hereinafter "tumor specific markers") than their normal counterparts. For example, plasminogen activator (PA) is released from human glioma at a higher level than from normal brain cells (see, e.g., Gullino, Angiogenesis, tumor vascularization, and potential interference with tumor growth. in Biological Responses in Cancer, pp. 178-184 (Mihich (ed.) 1985)). Similarly, Tumor

angiogenesis factor (TAF) is released at a higher level in tumor cells than their normal counterparts. See, e.g., Folkman, Angiogenesis and Cancer, Sem Cancer Biol. (1992)).

Various techniques which measure the release of these factors are described in Freshney (1994), supra. Also, see, Unkless et al., J. Biol. Chem. 249:4295-4305 (1974); Strickland & Beers, J. Biol. Chem. 251:5694-5702 (1976); Whur et al., Br. J. Cancer 42:305-312 (1980); Gullino, Angiogenesis, tumor vascularization, and potential interference with tumor growth. in Biological Responses in Cancer, pp. 178-184 (Mihich (ed.) 1985); Freshney Anticancer Res. 5:111-130 (1985).

Invasiveness into Matrigel

The degree of invasiveness into Matrigel or some other extracellular matrix constituent can be used as an assay to identify compounds that modulate metastatic colorectal cancer-associated sequences. Tumor cells exhibit a good correlation between malignancy and invasiveness of cells into Matrigel or some other extracellular matrix constituent. In this assay, tumorigenic cells are typically used as host cells. Expression of a tumor suppressor gene in these host cells would decrease invasiveness of the host cells.

Techniques described in Freshney (1994), *supra*, can be used. Briefly, the level of invasion of host cells can be measured by using filters coated with Matrigel or some other extracellular matrix constituent. Penetration into the gel, or through to the distal side of the filter, is rated as invasiveness, and rated histologically by number of cells and distance moved, or by prelabeling the cells with ¹²⁵I and counting the radioactivity on the distal side of the filter or bottom of the dish. *See, e.g.*, Freshney (1984), *supra*.

Tumor growth in vivo

Effects of metastatic colorectal cancer-associated sequences on cell growth can be tested in transgenic or immune-suppressed mice. Knock-out transgenic mice can be made, in which the metastatic colorectal cancer gene is disrupted or in which a metastatic colorectal cancer gene is inserted. Knock-out transgenic mice can be made by insertion of a marker gene or other heterologous gene into the endogenous metastatic colorectal cancer gene site in the mouse genome via homologous recombination. Such mice can also be made by substituting the endogenous metastatic colorectal cancer gene with a mutated version of the metastatic colorectal cancer gene, or by mutating the endogenous metastatic colorectal cancer gene, e.g., by exposure to carcinogens.

A DNA construct is introduced into the nuclei of embryonic stem cells. Cells containing the newly engineered genetic lesion are injected into a host mouse embryo, which is re-implanted into a recipient female. Some of these embryos develop into chimeric mice that possess germ cells partially derived from the mutant cell line. Therefore, by breeding the chimeric mice it is possible to obtain a new line of mice containing the introduced genetic lesion (see, e.g., Capecchi et al., Science 244:1288 (1989)). Chimeric targeted mice can be derived according to Hogan et al., Manipulating the Mouse Embryo: A Laboratory Manual, Cold Spring Harbor Laboratory (1988) and Teratocarcinomas and Embryonic Stem Cells: A Practical Approach, Robertson, ed., IRL Press, Washington, D.C., (1987).

Alternatively, various immune-suppressed or immune-deficient host animals can be used. For example, genetically athymic "nude" mouse (see, e.g., Giovanella et al., J. Natl. Cancer Inst. 52:921 (1974)), a SCID mouse, a thymectomized mouse, or an irradiated mouse (see, e.g., Bradley et al., Br. J. Cancer 38:263 (1978); Selby et al., Br. J. Cancer 41:52 (1980)) can be used as a host. Transplantable tumor cells (typically about 10⁶ cells) injected into isogenic hosts will produce invasive tumors in a high proportions of cases, while normal cells of similar origin will not. In hosts which developed invasive tumors, cells expressing a metastatic colorectal cancer-associated sequences are injected subcutaneously. After a suitable length of time, preferably 4-8 weeks, tumor growth is measured (e.g., by volume or by its two largest dimensions) and compared to the control. Tumors that have statistically significant reduction (using, e.g., Student's T test) are said to have inhibited growth. Additionally, human tumor cells expressing the genes of the invention may be injected into immune compromised animals. Growth of these tumors, or xenografts, is compared to growth of similar human tumor cell that do not express the genes of the invention. These animals may also be used to binding assays and efficacy studies for therapeutic compounds that modulate metastatic colorectal cancer, such as antibodies or small molecules.

Polynucleotide modulators of metastatic colorectal cancer

Antisense Polynucleotides

In certain embodiments, the activity of a metastatic colorectal cancerassociated protein is downregulated, or entirely inhibited, by the use of antisense polynucleotide, i.e., a nucleic acid complementary to, and which can preferably hybridize specifically to, a coding mRNA nucleic acid sequence, e.g., a metastatic colorectal cancer

protein mRNA, or a subsequence thereof. Binding of the antisense polynucleotide to the mRNA reduces the translation and/or stability of the mRNA.

In the context of this invention, antisense polynucleotides can comprise naturally-occurring nucleotides, or synthetic species formed from naturally-occurring subunits or their close homologs. Antisense polynucleotides may also have altered sugar moieties or inter-sugar linkages. Exemplary among these are the phosphorothioate and other sulfur containing species which are known for use in the art. Analogs are comprehended by this invention so long as they function effectively to hybridize with the metastatic colorectal cancer protein mRNA. See, e.g., Isis Pharmaceuticals, Carlsbad, CA; Sequitor, Inc., Natick, MA.

Such antisense polynucleotides can readily be synthesized using recombinant means, or can be synthesized *in vitro*. Equipment for such synthesis is sold by several vendors, including Applied Biosystems. The preparation of other oligonucleotides such as phosphorothioates and alkylated derivatives is also well known to those of skill in the art.

Antisense molecules as used herein include antisense or sense oligonucleotides. Sense oligonucleotides can, e.g., be employed to block transcription by binding to the anti-sense strand. The antisense and sense oligonucleotide comprise a single-stranded nucleic acid sequence (either RNA or DNA) capable of binding to target mRNA (sense) or DNA (antisense) sequences for metastatic colorectal cancer molecules. A preferred antisense molecule is for a metastatic colorectal cancer sequence in Tables 1-26, or for a ligand or activator thereof. Antisense or sense oligonucleotides, according to the present invention, comprise a fragment generally at least about 14 nucleotides, preferably from about 14 to 30 nucleotides. The ability to derive an antisense or a sense oligonucleotide, based upon a cDNA sequence encoding a given protein is described in, e.g., Stein & Cohen (Cancer Res. 48:2659 (1988 and van der Krol et al. (BioTechniques 6:958 (1988)).

Ribozymes

In addition to antisense polynucleotides, ribozymes can be used to target and inhibit transcription of metastatic colorectal cancer-associated nucleotide sequences. A ribozyme is an RNA molecule that catalytically cleaves other RNA molecules. Different kinds of ribozymes have been described, including group I ribozymes, hammerhead ribozymes, hairpin ribozymes, RNase P, and axhead ribozymes (see, e.g., Castanotto et al.,

Adv. in Pharmacology 25: 289-317 (1994) for a general review of the properties of different ribozymes).

The general features of hairpin ribozymes are described, e.g., in Hampel et al., Nucl. Acids Res. 18:299-304 (1990); European Patent Publication No. 0 360 257; U.S. Patent No. 5,254,678. Methods of preparing are well known to those of skill in the art (see, e.g., WO 94/26877; Ojwang et al., Proc. Natl. Acad. Sci. USA 90:6340-6344 (1993); Yamada et al., Human Gene Therapy 1:39-45 (1994); Leavitt et al., Proc. Natl. Acad. Sci. USA 92:699-703 (1995); Leavitt et al., Human Gene Therapy 5:1151-120 (1994); and Yamada et al., Virology 205: 121-126 (1994)).

Polynucleotide modulators of metastatic colorectal cancer may be introduced into a cell containing the target nucleotide sequence by formation of a conjugate with a ligand binding molecule, as described in WO 91/04753. Suitable ligand binding molecules include, but are not limited to, cell surface receptors, growth factors, other cytokines, or other ligands that bind to cell surface receptors. Preferably, conjugation of the ligand binding molecule does not substantially interfere with the ability of the ligand binding molecule to bind to its corresponding molecule or receptor, or block entry of the sense or antisense oligonucleotide or its conjugated version into the cell. Alternatively, a polynucleotide modulator of metastatic colorectal cancer may be introduced into a cell containing the target nucleic acid sequence, e.g., by formation of an polynucleotide-lipid complex, as described in WO 90/10448. It is understood that the use of antisense molecules or knock out and knock in models may also be used in screening assays as discussed above, in addition to methods of treatment.

Thus, in one embodiment, methods of modulating metastatic colorectal cancer in cells or organisms are provided. In one embodiment, the methods comprise administering to a cell an anti-metastatic colorectal cancer antibody that reduces or eliminates the biological activity of an endogenous metastatic colorectal cancer protein. Alternatively, the methods comprise administering to a cell or organism a recombinant nucleic acid encoding a metastatic colorectal cancer protein. This may be accomplished in any number of ways. In a preferred embodiment, e.g., when the metastatic colorectal cancer sequence is down-regulated in metastatic colorectal cancer, such state may be reversed by increasing the amount of metastatic colorectal cancer gene product in the cell. This can be accomplished, e.g., by overexpressing the endogenous metastatic colorectal cancer gene or administering a gene encoding the metastatic colorectal cancer sequence, using known gene-therapy techniques. In a preferred embodiment, the gene therapy techniques include the

incorporation of the exogenous gene using enhanced homologous recombination (EHR), e.g., as described in PCT/US93/03868, hereby incorporated by reference in its entirety. Alternatively, e.g., when the metastatic colorectal cancer sequence is up-regulated in metastatic colorectal cancer, the activity of the endogenous metastatic colorectal cancer gene is decreased, e.g., by the administration of a metastatic colorectal cancer antisense nucleic acid.

In one embodiment, the metastatic colorectal cancer proteins of the present invention may be used to generate polyclonal and monoclonal antibodies to metastatic colorectal cancer proteins. Similarly, the metastatic colorectal cancer proteins can be coupled, using standard technology, to affinity chromatography columns. These columns may then be used to purify metastatic colorectal cancer antibodies useful for production, diagnostic, or therapeutic purposes. In a preferred embodiment, the antibodies are generated to epitopes unique to a metastatic colorectal cancer protein; that is, the antibodies show little or no cross-reactivity to other proteins. The metastatic colorectal cancer antibodies may be coupled to standard affinity chromatography columns and used to purify metastatic colorectal cancer proteins. The antibodies may also be used as blocking polypeptides, as outlined above, since they will specifically bind to the metastatic colorectal cancer protein.

Methods of identifying variant metastatic colorectal cancer-associated sequences

Without being bound by theory, expression of various metastatic colorectal cancer sequences is correlated with metastatic colorectal cancer. Accordingly, disorders based on mutant or variant metastatic colorectal cancer genes may be determined. In one embodiment, the invention provides methods for identifying cells containing variant metastatic colorectal cancer genes, e.g., determining all or part of the sequence of at least one endogenous metastatic colorectal cancer genes in a cell. This may be accomplished using any number of sequencing techniques. In a preferred embodiment, the invention provides methods of identifying the metastatic colorectal cancer genotype of an individual, e.g., determining all or part of the sequence of at least one metastatic colorectal cancer gene of the individual. This is generally done in at least one tissue of the individual, and may include the evaluation of a number of tissues or different samples of the same tissue. The method may include comparing the sequence of the sequenced metastatic colorectal cancer gene to a known metastatic colorectal cancer gene, i.e., a wild-type gene.

The sequence of all or part of the metastatic colorectal cancer gene can then be compared to the sequence of a known metastatic colorectal cancer gene to determine if any

differences exist. This can be done using any number of known homology programs, such as Bestfit, etc. In a preferred embodiment, the presence of a difference in the sequence between the metastatic colorectal cancer gene of the patient and the known metastatic colorectal cancer gene correlates with a disease state or a propensity for a disease state, as outlined herein.

In a preferred embodiment, the metastatic colorectal cancer genes are used as probes to determine the number of copies of the metastatic colorectal cancer gene in the genome.

In another preferred embodiment, the metastatic colorectal cancer genes are used as probes to determine the chromosomal localization of the metastatic colorectal cancer genes. Information such as chromosomal localization finds use in providing a diagnosis or prognosis in particular when chromosomal abnormalities such as translocations, and the like are identified in the metastatic colorectal cancer gene locus.

Administration of pharmaceutical and vaccine compositions

In one embodiment, a therapeutically effective dose of a metastatic colorectal cancer protein or modulator thereof, is administered to a patient. By "therapeutically effective dose" herein is meant a dose that produces effects for which it is administered. The exact dose will depend on the purpose of the treatment, and will be ascertainable by one skilled in the art using known techniques (e.g., Ansel et al., Pharmaceutical Dosage Forms and Drug Delivery; Lieberman, Pharmaceutical Dosage Forms (vols. 1-3, 1992), Dekker, ISBN 0824770846, 082476918X, 0824712692, 0824716981; Lloyd, The Art, Science and Technology of Pharmaceutical Compounding (1999); and Pickar, Dosage Calculations (1999)). As is known in the art, adjustments for metastatic colorectal cancer degradation, systemic versus localized delivery, and rate of new protease synthesis, as well as the age, body weight, general health, sex, diet, time of administration, drug interaction and the severity of the condition may be necessary, and will be ascertainable with routine experimentation by those skilled in the art.

A "patient" for the purposes of the present invention includes both humans and other animals, particularly mammals. Thus the methods are applicable to both human therapy and veterinary applications. In the preferred embodiment the patient is a mammal, preferably a primate, and in the most preferred embodiment the patient is human.

The administration of the metastatic colorectal cancer proteins and modulators thereof of the present invention can be done in a variety of ways as discussed above,

including, but not limited to, orally, subcutaneously, intravenously, intranasally, transdermally, intraperitoneally, intramuscularly, intrapulmonary, vaginally, rectally, or intraocularly. In some instances, e.g., in the treatment of wounds and inflammation, the metastatic colorectal cancer proteins and modulators may be directly applied as a solution or spray.

The pharmaceutical compositions of the present invention comprise a metastatic colorectal cancer protein in a form suitable for administration to a patient. In the preferred embodiment, the pharmaceutical compositions are in a water soluble form, such as being present as pharmaceutically acceptable salts, which is meant to include both acid and base addition salts. "Pharmaceutically acceptable acid addition salt" refers to those salts that retain the biological effectiveness of the free bases and that are not biologically or otherwise undesirable, formed with inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid and the like, and organic acids such as acetic acid, propionic acid, glycolic acid, pyruvic acid, oxalic acid, maleic acid, malonic acid, succinic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid and the like. "Pharmaceutically acceptable base addition salts" include those derived from inorganic bases such as sodium, potassium, lithium, ammonium, calcium, magnesium, iron, zinc, copper, manganese, aluminum salts and the like. Particularly preferred are the ammonium, potassium, sodium, calcium, and magnesium salts. Salts derived from pharmaceutically acceptable organic non-toxic bases include salts of primary, secondary, and tertiary amines, substituted amines including naturally occurring substituted amines, cyclic amines and basic ion exchange resins, such as isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, and ethanolamine.

The pharmaceutical compositions may also include one or more of the following: carrier proteins such as serum albumin; buffers; fillers such as microcrystalline cellulose, lactose, corn and other starches; binding agents; sweeteners and other flavoring agents; coloring agents; and polyethylene glycol.

The pharmaceutical compositions can be administered in a variety of unit dosage forms depending upon the method of administration. For example, unit dosage forms suitable for oral administration include, but are not limited to, powder, tablets, pills, capsules and lozenges. It is recognized that metastatic colorectal cancer protein modulators (e.g., antibodies, antisense constructs, ribozymes, small organic molecules, etc.) when administered orally, should be protected from digestion. It is also recognized that, after delivery to other

sites in the body (e.g., circulatory system, lymphatic system, or the tumor site) the metastatic colorectal cancer modulators of the invention may need to be protected from excretion, hydrolisis, proteolytic digestion or modification, or detoxification by the liver. In all these cases, protection is typically accomplished either by complexing the molecule(s) with a composition to render it resistant to acidic and enzymatic hydrolysis, or by packaging the molecule(s) in an appropriately resistant carrier, such as a liposome or a protection barrier or by modifying the molecular size, weight, and/or charge of the modulator. Means of protecting agents from digestion degradation, and excretion are well known in the art.

The compositions for administration will commonly comprise a metastatic colorectal cancer protein modulator dissolved in a pharmaceutically acceptable carrier, preferably an aqueous carrier. A variety of aqueous carriers can be used, e.g., buffered saline and the like. These solutions are sterile and generally free of undesirable matter. These compositions may be sterilized by conventional, well known sterilization techniques. The compositions may contain pharmaceutically acceptable auxiliary substances as required to approximate physiological conditions such as pH adjusting and buffering agents, toxicity adjusting agents and the like, e.g., sodium acetate, sodium chloride, potassium chloride, calcium chloride, sodium lactate and the like. The concentration of active agent in these formulations can vary widely, and will be selected primarily based on fluid volumes, viscosities, body weight and the like in accordance with the particular mode of administration selected and the patient's needs (e.g., Remington's Pharmaceutical Science (15th ed., 1980) and Goodman & Gillman, The Pharmacologial Basis of Therapeutics (Hardman et al., eds., 1996)).

Thus, a typical pharmaceutical composition for intravenous administration would be about 0.1 to 10 mg per patient per day. Dosages from 0.1 up to about 100 mg per patient per day may be used, particularly when the drug is administered to a secluded site and not into the blood stream, such as into a body cavity or into a lumen of an organ. Substantially higher dosages are possible in topical administration. Actual methods for preparing parenterally administrable compositions will be known or apparent to those skilled in the art, e.g., Remington's Pharmaceutical Science and Goodman and Gillman, The Pharmacologial Basis of Therapeutics, supra.

The compositions containing modulators of metastatic colorectal cancer proteins can be administered for therapeutic or prophylactic treatments. In therapeutic applications, compositions are administered to a patient suffering from a disease (e.g., a cancer) in an amount sufficient to cure or at least partially arrest the disease and its

complications. An amount adequate to accomplish this is defined as a "therapeutically effective dose." Amounts effective for this use will depend upon the severity of the disease and the general state of the patient's health. Single or multiple administrations of the compositions may be administered depending on the dosage and frequency as required and tolerated by the patient. In any event, the composition should provide a sufficient quantity of the agents of this invention to effectively treat the patient. An amount of modulator that is capable of preventing or slowing the development of cancer in a mammal is referred to as a "prophylactically effective dose." The particular dose required for a prophylactic treatment will depend upon the medical condition and history of the mammal, the particular cancer being prevented, as well as other factors such as age, weight, gender, administration route, efficiency, etc. Such prophylactic treatments may be used, e.g., in a mammal who has previously had cancer to prevent a recurrence of the cancer, or in a mammal who is suspected of having a significant likelihood of developing cancer.

It will be appreciated that the present metastatic colorectal cancer proteinmodulating compounds can be administered alone or in combination with additional metastatic colorectal cancer modulating compounds or with other therapeutic agent, e.g., other anti-cancer agents or treatments.

In numerous embodiments, one or more nucleic acids, e.g., polynucleotides comprising nucleic acid sequences set forth in Tables 1-26, such as antisense polynucleotides or ribozymes, will be introduced into cells, *in vitro* or *in vivo*. The present invention provides methods, reagents, vectors, and cells useful for expression of metastatic colorectal cancerassociated polypeptides and nucleic acids using *in vitro* (cell-free), *ex vivo* or *in vivo* (cell or organism-based) recombinant expression systems.

The particular procedure used to introduce the nucleic acids into a host cell for expression of a protein or nucleic acid is application specific. Many procedures for introducing foreign nucleotide sequences into host cells may be used. These include the use of calcium phosphate transfection, spheroplasts, electroporation, liposomes, microinjection, plasma vectors, viral vectors and any of the other well known methods for introducing cloned genomic DNA, cDNA, synthetic DNA or other foreign genetic material into a host cell (see, e.g., Berger & Kimmel, Guide to Molecular Cloning Techniques, Methods in Enzymology volume 152 (Berger), Ausubel et al., eds., Current Protocols (supplemented through 1999), and Sambrook et al., Molecular Cloning - A Laboratory Manual (2nd ed., Vol. 1-3, 1989).

In a preferred embodiment, metastatic colorectal cancer proteins and modulators are administered as therapeutic agents, and can be formulated as outlined above.

Similarly, metastatic colorectal cancer genes (including both the full-length sequence, partial sequences, or regulatory sequences of the metastatic colorectal cancer coding regions) can be administered in a gene therapy application. These metastatic colorectal cancer genes can include antisense applications, either as gene therapy (i.e., for incorporation into the genome) or as antisense compositions, as will be appreciated by those in the art.

Metastatic colorectal cancer polypeptides and polynucleotides can also be administered as vaccine compositions to stimulate HTL, CTL and antibody responses.. Such vaccine compositions can include, e.g., lipidated peptides (see, e.g., Vitiello, et al., J. Clin. Invest. 95:341 (1995)), peptide compositions encapsulated in poly(DL-lactide-co-glycolide) ("PLG") microspheres (see, e.g., Eldridge, et al., Molec. Immunol. 28:287-294, (1991); Alonso et al., Vaccine 12:299-306 (1994); Jones et al., Vaccine 13:675-681 (1995)), peptide compositions contained in immune stimulating complexes (ISCOMS) (see, e.g., Takahashi et al., Nature 344:873-875 (1990); Hu et al., Clin Exp Immunol. 113:235-243 (1998)), multiple antigen peptide systems (MAPs) (see, e.g., Tam, Proc. Natl. Acad. Sci. U.S.A. 85:5409-5413 (1988); Tam, J. Immunol. Methods 196:17-32 (1996)), peptides formulated as multivalent peptides; peptides for use in ballistic delivery systems, typically crystallized peptides, viral delivery vectors (Perkus, et al., In: Concepts in vaccine development (Kaufmann, ed., p. 379, 1996); Chakrabarti, et al., Nature 320:535 (1986); Hu et al., Nature 320:537 (1986); Kieny, et al., AIDS Bio/Technology 4:790 (1986); Top et al., J. Infect. Dis. 124:148 (1971); Chanda et al., Virology 175:535 (1990)), particles of viral or synthetic origin (see, e.g., Kofler et al., J. Immunol. Methods. 192:25 (1996); Eldridge et al., Sem. Hematol. 30:16 (1993); Falo et al., Nature Med. 7:649 (1995)), adjuvants (Warren et al., Annu. Rev. Immunol. 4:369 (1986); Gupta et al., Vaccine 11:293 (1993)), liposomes (Reddy et al., J. Immunol. 148:1585 (1992); Rock, Immunol. Today 17:131 (1996)), or, naked or particle absorbed cDNA (Ulmer, et al., Science 259:1745 (1993); Robinson et al., Vaccine 11:957 (1993); Shiver et al., In: Concepts in vaccine development (Kaufmann, ed., p. 423, 1996); Cease & Berzofsky, Annu. Rev. Immunol. 12:923 (1994) and Eldridge et al., Sem. Hematol. 30:16 (1993)). Toxin-targeted delivery technologies, also known as receptor mediated targeting, such as those of Avant Immunotherapeutics, Inc. (Needham, Massachusetts) may also be used.

Vaccine compositions often include adjuvants. Many adjuvants contain a substance designed to protect the antigen from rapid catabolism, such as aluminum hydroxide or mineral oil, and a stimulator of immune responses, such as lipid A, Bortadella pertussis or Mycobacterium tuberculosis derived proteins. Certain adjuvants are commercially available as, e.g., Freund's Incomplete Adjuvant and Complete Adjuvant (Difco Laboratories, Detroit,

MI); Merck Adjuvant 65 (Merck and Company, Inc., Rahway, NJ); AS-2 (SmithKline Beecham, Philadelphia, PA); aluminum salts such as aluminum hydroxide gel (alum) or aluminum phosphate; salts of calcium, iron or zinc; an insoluble suspension of acylated tyrosine; acylated sugars; cationically or anionically derivatized polysaccharides; polyphosphazenes; biodegradable microspheres; monophosphoryl lipid A and quil A. Cytokines, such as GM-CSF, interleukin-2, -7, -12, and other like growth factors, may also be used as adjuvants.

Vaccines can be administered as nucleic acid compositions wherein DNA or RNA encoding one or more of the polypeptides, or a fragment thereof, is administered to a patient. This approach is described, for instance, in Wolff et. al., Science 247:1465 (1990) as well as U.S. Patent Nos. 5,580,859; 5,589,466; 5,804,566; 5,739,118; 5,736,524; 5,679,647; WO 98/04720; and in more detail below. Examples of DNA-based delivery technologies include "naked DNA", facilitated (bupivicaine, polymers, peptide-mediated) delivery, cationic lipid complexes, and particle-mediated ("gene gun") or pressure-mediated delivery (see, e.g., U.S. Patent No. 5,922,687).

For therapeutic or prophylactic immunization purposes, the peptides of the invention can be expressed by viral or bacterial vectors. Examples of expression vectors include attenuated viral hosts, such as vaccinia or fowlpox. This approach involves the use of vaccinia virus, e.g., as a vector to express nucleotide sequences that encode metastatic colorectal cancer polypeptides or polypeptide fragments. Upon introduction into a host, the recombinant vaccinia virus expresses the immunogenic peptide, and thereby elicits an immune response. Vaccinia vectors and methods useful in immunization protocols are described in, e.g., U.S. Patent No. 4,722,848. Another vector is BCG (Bacille Calmette Guerin). BCG vectors are described in Stover et al., Nature 351:456-460 (1991). A wide variety of other vectors useful for therapeutic administration or immunization e.g., adeno and adeno-associated virus vectors, retroviral vectors, Salmonella typhi vectors, detoxified anthrax toxin vectors, and the like, will be apparent to those skilled in the art from the description herein (see, e.g., Shata et al., Mol Med Today 6:66-71 (2000); Shedlock et al., J Leukoc Biol 68:793-806 (2000); Hipp et al., In Vivo 14:571-85 (2000)).

Methods for the use of genes as DNA vaccines are well known, and include placing a metastatic colorectal cancer gene or portion of a metastatic colorectal cancer gene under the control of a regulatable promoter or a tissue-specific promoter for expression in a metastatic colorectal cancer patient. The metastatic colorectal cancer gene used for DNA vaccines can encode full-length metastatic colorectal cancer proteins, but more preferably

encodes portions of the metastatic colorectal cancer proteins including peptides derived from the metastatic colorectal cancer protein. In one embodiment, a patient is immunized with a DNA vaccine comprising a plurality of nucleotide sequences derived from a metastatic colorectal cancer gene. For example, metastatic colorectal cancer-associated genes or sequence encoding subfragments of a metastatic colorectal cancer protein are introduced into expression vectors and tested for their immunogenicity in the context of Class I MHC and an ability to generate cytotoxic T cell responses. This procedure provides for production of cytotoxic T cell responses against cells which present antigen, including intracellular epitopes.

In a preferred embodiment, the DNA vaccines include a gene encoding an adjuvant molecule with the DNA vaccine. Such adjuvant molecules include cytokines that increase the immunogenic response to the metastatic colorectal cancer polypeptide encoded by the DNA vaccine. Additional or alternative adjuvants are available.

In another preferred embodiment metastatic colorectal cancer genes find use in generating animal models of metastatic colorectal cancer. When the metastatic colorectal cancer gene identified is repressed or diminished in metastatic tissue, gene therapy technology, e.g., wherein antisense RNA directed to the metastatic colorectal cancer gene will also diminish or repress expression of the gene. Animal models of metastatic colorectal cancer find use in screening for modulators of a metastatic colorectal cancer-associated sequence or modulators of metastatic colorectal cancer. Similarly, transgenic animal technology including gene knockout technology, e.g., as a result of homologous recombination with an appropriate gene targeting vector, will result in the absence or increased expression of the metastatic colorectal cancer protein. When desired, tissue-specific expression or knockout of the metastatic colorectal cancer protein may be necessary.

It is also possible that the metastatic colorectal cancer protein is overexpressed in metastatic colorectal cancer. As such, transgenic animals can be generated that overexpress the metastatic colorectal cancer protein. Depending on the desired expression level, promoters of various strengths can be employed to express the transgene. Also, the number of copies of the integrated transgene can be determined and compared for a determination of the expression level of the transgene. Animals generated by such methods find use as animal models of metastatic colorectal cancer and are additionally useful in screening for modulators to treat metastatic colorectal cancer.

Kits for Use in Diagnostic and/or Prognostic Applications

For use in diagnostic, research, and therapeutic applications suggested above, kits are also provided by the invention. In the diagnostic and research applications such kits may include any or all of the following: assay reagents, buffers, metastatic colorectal cancer-specific nucleic acids or antibodies, hybridization probes and/or primers, antisense polynucleotides, ribozymes, dominant negative metastatic colorectal cancer polypeptides or polynucleotides, small molecules inhibitors of metastatic colorectal cancer-associated sequences etc. A therapeutic product may include sterile saline or another pharmaceutically acceptable emulsion and suspension base.

In addition, the kits may include instructional materials containing directions (i.e., protocols) for the practice of the methods of this invention. While the instructional materials typically comprise written or printed materials they are not limited to such. Any medium capable of storing such instructions and communicating them to an end user is contemplated by this invention. Such media include, but are not limited to electronic storage media (e.g., magnetic discs, tapes, cartridges, chips), optical media (e.g., CD ROM), and the like. Such media may include addresses to internet sites that provide such instructional materials.

The present invention also provides for kits for screening for modulators of metastatic colorectal cancer-associated sequences. Such kits can be prepared from readily available materials and reagents. For example, such kits can comprise one or more of the following materials: a metastatic colorectal cancer-associated polypeptide or polynucleotide, reaction tubes, and instructions for testing metastatic colorectal cancer-associated activity. Optionally, the kit contains biologically active metastatic colorectal cancer protein. A wide variety of kits and components can be prepared according to the present invention, depending upon the intended user of the kit and the particular needs of the user. Diagnosis would typically involve evaluation of a plurality of genes or products. The genes will be selected based on correlations with important parameters in disease which may be identified in historical or outcome data.

Table 1

Pkey: Unique Eos probeset identifier number

ExAcca: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

Pkey	ExAcon	UnigenelD	Unigene Title	Ratio BS_Mets	Top 3 expressing cell lines
103989	AA314779	Hs 105484	ESTs; Weakly similar to LITHOSTATHINE 1	15.77	EB_cells, HT29_cells, HMEC
	L15533	Hs.423	pancreatitis-associated protein	11.98	HMEC (total RNA), Fibroblasts 2, Fibroblasts 2
	M97925	Hs.72887	defensin; alpha 5; Paneth cell-specific	9.24	Fibroblasts 2, MB231_cells, MB-MDA-453
	D84239		IgG Fc binding protein	8.57	EB_cells, OVCAR_cells, HS578T_cells
	C20785			7.43	HMEC (total RNA), HMEC, Fibroblasts 2
	D11925		KIAA0929 protein Msx2 interacting nuclea	7.15	HMEC, HMEC (total RNA), Fibroblasts 2
	N79237		ESTs; Weakly similar to long chain fatty	6.72	HMEC, HMEC (total RNA), Lu_AD_H23
	L08010	Hs.4158	regenerating islet-derived 1 beta (pancr	6.33	BT474_cells, Fibroblasts 2, MB231_cells
	Y00339		carbonic anhydrase II	6.18	OVCAR_cells, MCF7, 293T_cells
	U33317	Hs.711	defensin; alpha 6; Paneth cell-specific	5.67	Fibroblasts 2, HMEC, HT29_cells
			H sapiens chromosome 19; cosmid F22162	5.14	HS578T_cells, HMEC (total RNA), HMEC
	L21998	Hs.315	mucin 2; Intestinal/tracheal	5.1	EB_cells, HT29_cells, MB231_cells
			ESTs; Weakly similar to !!!! ALU CLASS F	4.94	HMEC (total RNA), HMEC, EB_cells
	Al498467		ESTs; Weakly similar to sodium bicarbona	4.77	HS578T_cells, HMEC, Lu_SQ_H520
	H82117	Hs.28043		4.54	HMEC, HS578T_cells, BT474_cells
	R19305		H sapiens mRNA for alpha integrin bindin	4.52	HMEC, HS578T_cells, Caco2
	R68971	Hs.168500		4.5	HMEC, HMEC (total RNA), HS578T_cells
127352	AA416577	Hs.189105	ESTs	4.41	HMEC, HMEC (total RNA), MB-MDA-435s
	T99385	Hs.18646		4.29	HMEC, EB_cells, HMEC (total RNA)
128592	AA470056	Hs.113994	ESTs; Weakly similar to alternatively sp	4.18	HMEC (total RNA), HMEC, Fibroblasts 2
108092	AA045961	Hs.169355	ESTs; Weakly similar to TRANSCRIPTION RI	E	4.04 HMEC (total RNA), HMEC, Fibroblasts 2
	S72487		endothelial cell growth factor 1 (platel	4.03	EB_cells, HMEC, HMEC (total RNA)
	HG2271		Profilaggrin	4.03	HMEC (total RNA), HMEC, Fibroblasts 2
115775	AA424030	Hs.46627	ESTs	4.02	HMEC, HMEC (total RNA), EB_cells
120811	AA346854	Hs.52788	fragile X mental retardation; autosomal	4.01	HMEC (total RNA), HMEC, Fibroblasts 2
111919	R39926	Hs.21031	ESTs	3.98	EB_cells, HMEC (total RNA), HMEC
117009	H85422	Hs.108556	ESTS	3.97	HMEC (total RNA), HMEC, Fibroblasts 2
101124	L10343	Hs.112341	protease inhibitor 3; skin-derived (SKAL	3.89	PC3_cells, RPWE_2, Caco2
106151	AA424958	Hs.33735	ESTs	3.88	EB_cells, HMEC, HMEC (total RNA)
134733	U03644	Hs.89421	CBF1 interacting corepressor	3.88	EB_cells, HMEC, HMEC (total RNA)
131739	AA449749	Hs.31386	ESTs; Highly similar to secreted apoptos	3.87	HS578T_cells, MB-MDA-435s, HT29_cells
	AA490469	Hs.48752	ESTs	3.84	HS578T_cells, HMEC, LNCaP_cells
	U05259	Hs.79630	CD79A antigen (immunoglobulin-associated	3.83	DU145_cells, Lu_AD_H23, MB231_cells
	AA476944		ESTs	3.82	LNCaP_cells, Lu_SC_H345, DU145_cells
	AA039854		H sapiens mRNA full length insert cONA c	3.78	HS578T_cells, A549_cells, CALU6_cells
	N27334	Hs.181780		3.75	HMEC (total RNA), HMEC, BT474_cells
		Hs.252808	ESTs; Highly similar to pulmonary surfac	3.75	293T_cells, PRSC_con, HT29_cells
	HG2149		Mucin (Gb:M57417)	3.75	HMEC (total RNA), HMEC, Fibroblasts 2
	H65841	Hs.186550		3.73	HS578T_cells, 293T_cells, HMEC
	T59670	Hs.10615	ESTs	3.7	HMEC, HS578T_cells, Caco2
	N74467	Hs.94304		3.68	HMEC, HS578T_cells, OVCAR_cells
	AA055768	Hs.122576		3.66	EB_cells, MCF7, LNCaP_cells
	M58459		ribosomal protein S4; Y-linked	3.62	DU145_cells, RPWE_2, A549_cells
		Hs.187571		3.6	HMEC (total RNA), Fibroblasts 2, Fibroblasts 2
			ESTs; Weakly similar to polymerase [H.sa	3.58	HMEC (total RNA), HMEC, Fibroblasts 2 3.56 HMEC, HMEC (total RNA), EB_cells
	C21382	Hs.99766	H sapiens mRNA; cDNA DKFZp564J0323 (fro		3.56 HMEC, HMEC (total RNA), EB_cells HMEC (total RNA), HMEC, Fibroblasts 2
	Z44079	Hs.91608	otoferlin peroxisome receptor 1	3.53	
	U35407		<u> </u>	3.51	HMEC, HMEC (total RNA), EB_cells HMEC (total RNA), HMEC, EB_cells
	N50101 U46278	Hs.122489	ESTs; Weakly similar to coded for by C.	3.47 3.46	LNCaP_cells, MCF7, DU145_cells
120400	040270 040270		small glutamine-rich tetratricopeptide r	3.45	EB_cells, HMEC, HMEC (total RNA)
	R01084	Hs.19081		3.43	HS578T_cells, EB_cells, Lu_AD_H23
	AA194075		nuclear receptor coactivator 4	3.4	HS578T_cells, EB_cells, HMEC
	AA121960	113.35560	zm24g9.s1 Stratagene pancreas (#93728) H		
			mRNA seq	3.4	EB_cells, HMEC, HMEC (total RNA)
105437	AA252191		ESTs; Highly similar to match to ESTs AA	3.38	EB_cells, LNCaP_cells, RPWE_2
103448	X99133	Hs.204238	lipocalin 2 (oncogene 24p3)	3.38	PC3_cells, EB_cells, HT29_cells
130436	M84526	Hs.155597	D component of complement (adipsin)	3.37	PRSC_con, EB_cells, Lu_AD_H23
	R55021		yj76d5.s1 Soares breast 2NbHBst H saplen	3.36	EB_cells, HMEC, HMEC (total RNA)
103211	X73079		polymeric immunoglobulin receptor	3.35	MB231_cells, HT29_cells, Lu_SC_H69
109012	AA156576	Hs.191466	ESIS	3.21	EB_cells, HMEC, HMEC (total RNA)
		Hs.247433	activating transcription factor 6	3.19	HMEC (total RNA), HMEC, Lu_AD_H23
	T86945	Hs.16304		3.18	HMEC, MB231_cells, Caco2
103029	X54489	Hs.789	GRO1 oncogene (metanoma growth stimulati	3.16	Lu_LC_H460, PC3_cells, Fibroblasts 2

109374					
	AA218727	Hs.210785	ESTs; Highly similar to Ibd1 [H.saplens]	3.13	Caco2, A549_cells, MB231_cells
131403	R55750	Hs.26455		3.13	HS578T_cells, HMEC, MB231_cells
	T83964	Hs.15400		3.11	HMEC (total RNA), HMEC, EB_cells
	R69824	Hs.28313		3.11	HMEC, HMEC (total RNA), EB_cells
	N50782	Hs.231713		3.11	HMEC, HS578T_cells, Cacc2
	T87826	Hs.164480		3.1	HS578T_cells, EB_cells, MB-MDA-435s
107072	AA609113	Hs.177533	H sapiens mRNA; cDNA DKFZp586N0318 (fr		3.1 Lu_SC_H69, MB-MDA-453, MB231_cells
	N64583	Hs.182385		3.05	HMEC, HMEC, LNCaP_cells
	N38970	Hs.194214		3.04	HMEC, HMEC (total RNA), Fibroblasts 2
101082	L05072		interferon regulatory factor 1	3.04	EB_cells, PRSC_con, DU145_cells
	H75323	Hs.167614		3.03	HS578T_cells, HMEC (total RNA), HMEC
	W90108		KIAA0187 gene product	3.03	HMEC, HMEC (total RNA), EB_cells
	AA297581	110.10010	EST113160 Gall bladder I H sapiens cDNA	3.02	HMEC, Lu_AD_H23, Lu_SQ_H520
106899	AA490107	He 21753	JM5 protein	3.02	EB_cells, HMEC (total RNA), HMEC
112784	R96306	Hs.191290		3.02	EB_cells, HMEC, Lu_AD_358
	T93337		ESTs; Highly similar to LRR FLI-I Intera	3.02	HMEC (total RNA), EB_cells, HMEC
	AA007230			3.02	Lu_SC_H345, HS578T_cells, Lu_LC_H460
	S75256	. 10100020	HNL=neutrophii lipocalin [human, ovarian	3.01	PC3_cells, EB_cells, HT29_cells
	HG315T		Beta-1-Glycoprotein 11, Pregnancy-Specif	3.01	Fibroblasts 2, Lu_AD_H23, MB-MDA-435s
	U53445	He 15432	downregulated in ovarian cancer 1	2.98	PRSC_con, Fibroblasts 2, HMEC
	AA416615			2.94	HMEC, HS578T_cells, BT474_cells
	AA047055			2.94	HS578T_cells, EB_cells, HMEC
	AA056588			2.93	HMEC (total RNA), Fibroblasts 2, HMEC
	H05961	Hs.26331	=	2.92	HMEC, MB231_cells, HS578T_cells
	R78309	Hs.20787		2.92	Caco2, Lu_AD_358, Lu_AD_358
	L29433		coagulation factor X	2.91	HMEC, HS578T_cells, Caco2
	L10955		carbonic anhydrase IV	2.9	BT474_cells, MCF7, HMEC (total RNA)
	R07294		solute carrier family 22 (organic cation	2.9	HMEC, HMEC (total RNA), MB-MDA-435s
	Z38431	He 27028	ESTs; Moderately similar to X-linked ret	2.89	HMEC, HMEC (total RNA), EB_cells
	AA024687			2.88	HS578T_cells, MB231_cells, HMEC
	R10759	Hs.15177		2.88	HS578T_cells, Lu_LC_H460, PRSC_con
	AA282433	113.13177	H sapiens p60 katanin mRNA; complete cds		EB_cells, MB-MDA-435s, RPWE_2
		He 107729	ESTs; Weakly similar to ZINC FINGER PROT		EB_cells, PC3_cells, HMEC
	H65459	Hs.38323			HMEC, Caco2, HS578T_cells
	X03068			2.85 2.82	MB-MDA-435s, BT474_cells, HT29_cells
	C00810		major histocompatibility complex; class	2.82	LNCaP_cells, Lu_SC_H345, EB_cells
	H05741		guanine nucleotide binding protein (G pr	2.82	HMEC, HS578T_cells, HT29_cells
	Al247422	Hs.101643 Hs.129966		2.82	HS578T_cells, Lu_LC_H460, Lu_SC_H69
	R15413		ESTs; Highly similar to PROTEIN KINASE C		MB231_ceils, Lu_AD_H23, RPWE_2
	Z28861	113.104313	HSBA7E032 STRATAGENE Human skeletal		WID251_0635, E0_ND_1125, 14 116_E
120010	220001		cDNA clone A7E03, mRNA seq.	2.77	HMEC, Lu_AD_H23, HMEC (total RNA)
114418	AA011383	He 177313		2.77	HS578T_cells, EB_cells, MCF7
	AA228030			2.77	EB_cells, Fibroblasts 2, HMEC (total RNA)
	H73017		ESTs; Weakly similar to atrophin-1 relat	2.76	Fibroblasts 2, PRSC_con, DU145_cells
	T64349	113.200123		2.76	EB_cells, Lu_AD_H23, Lu_SC_H69
	N36368	Un 444400	yc10d08.s1 Stratagene lung (#937210) H s ESTs; Moderately similar to similar to C	2.76	Lu_AD_H23, HMEC (total RNA), MB-MDA-435s
	1400000				2,75 HMEC, HMEC (total RNA), Lu_SC_H69
	DV3083				
	R43963	Hs.169355	ESTs; Weakly similar to TRANSCRIPTION RI		
103005	X52008	Hs.169355 Hs.2700	glycine receptor, alpha 2	2.74	HS578T_cells, HMEC, MB-MDA-453
103005 109170	X52008 AA180352	Hs.169355 Hs.2700 Hs.191472	glycine receptor; alpha 2 ESTs	2.74 2.74	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s
103005 109170 101125	X52008 AA180352 L10373	Hs.169355 Hs.2700 Hs.191472 Hs.82749	glycine receptor, alpha 2 ESTs transmembrane 4 superfamily member 2	2.74 2.74 2.73	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells
103005 109170 101125 130656	X52008 AA180352 L10373 Z20481	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein	2.74 2.74 2.73 2.73	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2
103005 109170 101125 130656 122933	X52008 AA180352 L10373 Z20481 AA476728	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs	2.74 2.74 2.73 2.73 2.72	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA)
103005 109170 101125 130656 122933 126033	X52008 AA180352 L10373 Z20481 AA476728 AA055978	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN	2.74 2.74 2.73 2.73 2.72 PR	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells
103005 109170 101125 130656 122933 126033 111644	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST: Moderately similar to Cd-7 Metallo	2.74 2.74 2.73 2.73 2.72 PR 2.71	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA)
103005 109170 101125 130656 122933 126033 111644 133719	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apoliooprotein D	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2,71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s
103005 109170 101125 130656 122933 126033 111644 133719 127555	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.71	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.13759	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.7 2.69	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 109326	X52008 AA180352 L10373 Z20481 AA476728 AA055978 AA035999 AA033790 AA582324 T70580 AA210719	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.13759 Hs.86414	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.71 2.69 2.68	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 109326 135003	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.13759	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.71 2.69 2.68 2.68	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, PRSC_con
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 109326 135003 103650	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.13759 Hs.13759 Hs.866414 Hs.92832	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs ESTs H.sapiens mRNA for 5'UTR for unknown pro	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.71 2.69 2.68 2.68 2.68	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, PRSC_con HMEC, HS578T_cells, PRSC_con
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 1093650 135003 103650 111507	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220 R07728	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.13759 Hs.86414 Hs.92832 Hs.191218	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs H.sapiens mRNA for 5'UTR for unknown pro ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.7 2.69 2.68 2.68 2.68 2.68	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2,71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC, (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, Lu_SC_H69 HMS78T_cells, EB_cells, Lu_SC_H69 HMEC, HS578T_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC (total RNA), HMEC, EB_cells
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 109326 135033 103650 111507 117084	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220 R07728 H93081	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.13759 Hs.86414 Hs.92832 Hs.191218 Hs.41829	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.7 2.69 2.68 2.68 2.68 2.67 2.67	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2,71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC, (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, Lu_SC_H69 HMSC, HS578T_cells, PRSC_con HMEC, (total RNA), HMEC, EB_cells HS578T_cells, HMEC, MB231_cells
103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 109326 135003 103650 111507 117084 103975	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220 R07728 H93081 AA306264	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.177411 Hs.107537 Hs.283649 Hs.75736 Hs.192857 Hs.13759 Hs.86414 Hs.92832 Hs.176403	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.7 2.69 2.68 2.68 2.68 2.67 2.67	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC (total RNA), HMEC, EB_cells HS578T_cells, HMEC, BB_cells HS578T_cells, HMEC, MB231_cells DU145_cells, HS578T_cells, MB-MDA-435s
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103005 109170 101125 130656 122933 126033 111644 133719 127555 113321 109326 135003 103650 111507 117084 103975 132850 121599 124230 114174 128469 117399 129279 119817 114445 120651	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220 R07728 H93081 AA306264 R89741 AA416770 H63111 Z39055 T23724 N26480 AA460551 W74257 AA019594 AA287286	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.13759 Hs.86414 Hs.92832 Hs.176403 Hs.58215 Hs.98255 Hs.6655 Hs.258677 Hs.258677 Hs.258677 Hs.258677 Hs.258679 Hs.2596493 Hs.2596493 Hs.99657	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.7 2.69 2.68 2.68 2.67 2.67 2.67 2.67 2.67 2.67 2.67 2.57 2.57 2.57 2.57 2.57 2.57	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC (total RNA), HMEC, EB_cells HS578T_cells, HMEC, MB231_cells DU145_cells, HMEC, MB231_cells DU145_cells, HMEC, BB_cells HMEC (total RNA), HMEC, EB_cells HMEC, HGE, Lu_SC_H69, MB-MDA-435s HMEC, HMEC (total RNA), EB_cells HMEC, HMEC (total RNA), EB_cells HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), Fibroblasts 2
103005 109170 101125 130656 122933 126033 111644 133719 12755 113321 109326 135003 103650 111507 117084 103975 132850 121599 124230 114174 128469 117399 129279 119417 114445 120651 105707	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220 R07728 H93081 AA306264 R89741 AA416770 H63111 Z39055 T23724 N26480 AA460551 W74257 AA019594 AA287286 AA291012	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.186414 Hs.92832 Hs.176403 Hs.58215 Hs.98255 Hs.6555 Hs.6555 Hs.258677	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.69 2.68 2.68 2.67 2.67 2.67 2.67 2.57 2.57 2.57 2.57 2.57 2.57 2.55 2.55	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con HMEC (total RNA), Fibroblasts 2, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC (total RNA), HMEC, EB_cells HS578T_cells, HMEC, MB231_cells DU145_cells, HS578T_cells, MB-MDA-435s HS578T_cells, HMEC, MB231_cells DU145_cells, HMEC, MB231_cells HMEC (total RNA), HMEC, EB_cells HMEC (total RNA), HMEC, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 Caco2, MB-MDA-453, A549_cells HMEC (total RNA), HMEC, EB_cells HMEC, HMEC (total RNA), EB_cells HS578T_cells, EB_cells, H729_cells HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HTC2 (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), EB_cells HMEC, HTC2 (total RNA), Fibroblasts 2 HMEC, HMEC (total RNA), Fibroblasts 2 HMEC, HTC2 (total RNA), Fibroblasts 2 HMEC (total RNA), EB_cells, BT474_cells
103005 109170 101125 130656 122933 126033 111644 133719 12755 113321 109326 135003 103650 111507 11708 121599 124230 114174 128450 117399 129279 119817 114445 120651 105707 128483	X52008 AA180352 L10373 Z20481 AA476728 AA055978 R16539 AA033790 AA582324 T70580 AA210719 H42527 Z70220 R07728 H93081 AA306264 R89741 AA416770 H63111 Z39055 T23724 N26480 AA460551 W74257 AA019594 AA287286 AA291012 T58588	Hs.169355 Hs.2700 Hs.191472 Hs.82749 Hs.17411 Hs.107537 Hs.3807 Hs.223649 Hs.75736 Hs.192857 Hs.86414 Hs.92832 Hs.191218 Hs.41829 Hs.41829 Hs.476403 Hs.58215 Hs.6655 Hs.27264 Hs.258677 Hs.43805 Hs.184860 Hs.159690 Hs.250493 Hs.99657 Hs.37617 Hs.5148	glycine receptor; alpha 2 ESTs transmembrane 4 superfamily member 2 KIAA0699 protein ESTs ESTs; Weakly similar to PHOSPHOLEMMAN EST; Moderately similar to Cd-7 Metallo apolipoprotein D ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.74 2.74 2.73 2.73 2.72 PR 2.71 2.71 2.69 2.68 2.68 2.67 2.67 2.67 2.66 2.57 2.57 2.57 2.57 2.57 2.57 2.57 2.55 2.55	HS578T_cells, HMEC, MB-MDA-453 Fibroblasts 2, HMEC (total RNA), MB-MDA-435s Lu_LC_H460, 293T_cells, EB_cells HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, EB_cells, HMEC (total RNA) 2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells EB_cells, HMEC, HMEC (total RNA) Caco2, Fibroblasts 2, MB-MDA-435s HMEC, HS578T_cells, HMEC (total RNA) HMEC (total RNA), Fibroblasts 2, PRSC_con MB-MDA-435s, HS578T_cells, Lu_SC_H69 HS578T_cells, EB_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC, HS578T_cells, PRSC_con HMEC (total RNA), HMEC, EB_cells HS578T_cells, HMEC, MB231_cells DU145_cells, HMEC, MB231_cells DU145_cells, HMEC, BB_cells HMEC (total RNA), HMEC, EB_cells HMEC, HGE, Lu_SC_H69, MB-MDA-435s HMEC, HMEC (total RNA), EB_cells HMEC, HMEC (total RNA), EB_cells HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), Lu_SC_H69 HMEC, HMEC (total RNA), Fibroblasts 2

134764	M74715	Hs.89560	iduronidase; alpha-L-	2.54	BT474_cells, PRSC_con, HT29_cells
	T82323	Hs.70337	immunoglobulin superfamily; member 4	2.54	Caco2, HS578T_cells, HMEC
		Hs.108812		2.54	BT474_cells, MB-MDA-435s, HMEC
	M19684			2.54	HMEC, HT29_ceils, HMEC (total RNA)
			protease inhibitor 1 (alpha-1-antitryps)		
	X72755		monokine induced by gamma interferon	2.53	Fibroblasts 2, MB231_cells, HMEC (total RNA)
	AA489716	Hs.43658	DKFZP586L151 protein	2.53	EB_cells, HMEC, HMEC (total RNA)
108392	AA075124		zm86a1.s1 Stratagene ovarian cancer (#93		
			IMAGE:544776 3°, mRNA seq	2.52	HMEC (total RNA), HMEC, HS578T_cells
119508	W37895	Hs.45519	ESTs	2.52	Lu_SC_H69, CALU6_cells, 293T_cells
109828	F13763	Hs.19827	ESTs	2.52	PRSC_log, PRSC_con, HS578T_cells
	N89775		zinc finger protein 36 (KOX 18)	2.51	HMEC, HS578T_cells, HT29_cells
	U66061			2.51	OVCAR_cells, MB231_cells, PC3_cells
			protease; serine; 1 (trypsin 1)		
			STAT induced STAT inhibitor 3	2.51	HS578T_cells, HT29_cells, HMEC
	H48579	Hs.36275		2.51	HS578T_cells, Caco2, Lu_LC_H460
123762	AA610013	Hs.244553	EST	2.51	HMEC (total RNA), HMEC, Fibroblasts 2
126406	AA034096		zi06f05.r1 Soares_fetal_liver_spleen_1NF		
			IMAGE:430017 5', mRNA seq.	2.5	Lu_AD_H23, HS578T_cells, Lv_AD_358
129751	AA346065	Hs.111286	KIAA0714 protein	2.5	HMEC, HS578T_cells, Fibroblasts 2
	AA418743		ESTs	2.5	EB_cells, HMEC (total RNA), HMEC
				2.5	Fibroblasts 2, EB_cells, PRSC_con
	R77783	Hs.22404	protease; serine; 12 (neurotrypsin; moto	2.5	Fibioblesis Z, Eb_colis, F100_coli
108499	AA083103		zn1b12.s1 Stratagene hNT neuron (#937233		
			IMAGE:5477 3', mRNA seq	2.5	LNCaP_cells, MB-MDA-453, HMEC
131968	AA151333	Hs.36029	ESTs; Highly similar to basic helix-loop	2.5	Fibroblasts 2, A549_cells, 293T_cells
112665	R85661	Hs.221447		2.48	Lu_AD_H23, HMEC, Lu_LC_H460
	AA421562		anterior gradient 2 (Xenepus laevis) hom	2.48	EB_cells, Caco2, MCF7
	AA405540		ESTs	2.48	OVCAR_cells, BT474_cells, Cacc2
	R79519		ESTs	2.48	HMEC (total RNA), EB_cells, HMEC
		Hs.16899			
	H16681		guanine nucleotide binding protein (G pr	2.46	HS578T_cells, HMEC, OVCAR_cells
	AA009809		ESTs	2.46	HMEC, HS578T_cells, Caco2
132339	D80030	Hs.45127	chondroitin sulfate proteoglycan 5 (neur	2.45	OVCAR_cells, 293T_cells, HMEC (total RNA)
121712	AA419116	Hs.193663	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.45	Lu_SQ_H520, Lu_AD_H23, Lu_SC_H69
	M96843		inhibitor of DNA binding 2; dominant neg	2.44	MB-MDA-453, 293T_cells, Caco2
			neuropeptide FF-amide peptide precursor	2.43	HMEC, HMEC (total RNA), EB_cells
				2.43	EB_cells, HS578T_cells, Lu_SC_H69
	AA461174		ESTS		
	T26914		EAP30 subunit of ELL complex	2.43	EB_cells, HMEC (total RNA), HMEC
	X74295		integrin; alpha 7	2.42	Fibroblasts 2, Caco2, EB_cells
125713	AA367905	Hs.77356	transferrin receptor (p90; CD71)	2.41	HS578T_cells, Fibroblasts 2, Lu_AD_H23
107438	W27841	Hs.17118	ESTs; Weakly similar to B0025.2 [C.elega	2.41	HMEC, HS578T_cells, MB231_cells
	M83186		cytochrome c oxidase subunit VIIa polype	2.41	Fibroblasts 2, PRSC_con, PRSC_log
			endonuclease G	24	EB_cells, HMEC, Lu_AD_H23
	T95642	Hs.189759		2.4	EB_cells, A549_cells, HS578T_cells
					HMEC, HMEC (total RNA), EB_cells
			SHP2 interacting transmembrane adaptor	2.4	
	T47906	Hs.220512		2.39	MB-MDA-435s, HS578T_cells, HMEC
			ESTs; Moderately similar to cAMP inducib	2.39	LNCaP_cells, OVCAR_cells, PC3_cells
115833	AA428269	Hs.125035	ESTs	2.38	Caco2, LNCaP_cells, CALU6_cells
132223	R77451	Hs.4245	ESTs; Weakly similar to similar to S. ce	2.38	HMEC, HMEC (total RNA), EB_cells
115836	AA428863	Hs.89388	ESTs	2.38	HS578T_cells, HMEC, PRSC_con
	S45630	Hs.1940	crystallin; alpha B	2.38	HS578T_cells, OVCAR_cells, Lu_LC_H460
	D82422	Hs.5944	ESTs	2.37	Caco2, MB-MDA-453, HT29_cells
				2.35	LNCaP_cells, 293T_cells, EB_cells
		Hs.26570			LINCOL DELIA LINCO LITTO colle
	W27770	Hs.258721		2.35	HMEC (total RNA), HMEC, HT29_cells
		Hs.189324		2.34	HMEC (total RNA), HMEC, EB_cells
119343	T62873		yc3d2.s1 Stratagene lung (#93721) H sapi		
			to contains Alu repetitive element;, mR	2.34	HS578T_cells, Lu_SC_H69, HT29_cells
115442	AA284722	Hs.89121	H sapiens mRNA; chromosome 1 specific tr	2.33	Lu_AD_H23, HMEC (total RNA), BT474_cells
	T69384	Hs.68398	period (Drosophila) homolog 1	2.33	HMEC, HMEC (total RNA), MB231_cells
	Al375276	Hs.158732		2.33	HMEC (total RNA), EB_cells, HMEC
				2.33	Lu_AD_H23, HMEC (total RNA), HMEC
	AI421866		ribophorin !!		
	H23927	Hs.222381		2.33	HS578T_cells, HMEC, Lu_LC_H460
	W86471	Hs.151624	hypocretin (orexin) receptor 2	2.32	HMEC, HMEC (total RNA), EB_cells
125958	A1073357	Hs.12311	H sapiens clone 23570 mRNA seq	2.32	MB231_cells, HMEC (total RNA), HMEC
119746	W70279	Hs.221189	ESTs; Weakly similar to 15-HYDROXYPROS	ΓΑ	2.32 HMEC, HS578T_cells, MB231_cells
108874	AA134112		H sapiens DNA seg from cosmid ICK0721Q o		
			L12 LIKE protein in an intron of the HS	2.32	Caco2, PRSC_con, LNCaP_cells
127259	CASTENTA	Hs.193326		2.32	HMEC (total RNA), HS578T_cells, HMEC
					HMEC (total RNA), HMEC, MB-MDA-435s
		Hs.104311		2.32	
	W80852		KDEL (Lys-Asp-Glu-Leu) endoplasmic retic	2.32	Fibroblasts 2, HS578T_cells, MB-MDA-435s
	J02947	Hs.2420	superoxide dismutase 3; extracellular	2.32	PRSC_con, EB_cells, Lu_AD_358
	X76057	Hs.75694	mannose phosphate isomerase	2.31	293T_cells, LNCaP_cells, RPWE_2
	AA039331	Hs.16323	ESTs; Weakly similar to GAGE-7 [H.sapien •	2.31	Caco2, HS578T_cells, HMEC
113186	T56048	Hs.189674		2.31	HMEC, Fibroblasts 2, HMEC (total RNA)
113462	T86826	Hs.142528		2.31	PC3_cells, HS578T_cells, HMEC
10402	AA021157				HMEC (total RNA), HMEC, OVCAR_cells
104/43	V00007			2.3	PRSC_log, PRSC_con, HS578T_cells
12300/	Y00097		annexin A6	2.3	LIVEL THE HAPPEN LOSIN LOSIN
111674	R10305	Hs.185683	E015	2.3	HMEC, HMEC (total RNA), EB_cells
111373	1100000	11-44	FOT. 141 14 4 9 4 5 5 1 1 1 1		mm - II- File-chicate 9 LICETOT cells
117523	N32626	Hs.145532	ESTs; Weakly similar to Gag polyprotein	2.29	EB_cells, Fibroblasts 2, HS578T_cells

115540	AA349954	Hs.56281	ESTs; Wealdy similar to ASB-1 protein [H	2.29	Fibroblasts 2, BT474_cells, MB231_cells
	M55621		mannosyl (alpha-1;3-)-glycoprotein beta-	2.29	PRSC_con, RPWE_2, PRSC_log
	Y13620		B-cell CLL/lymphoma 9	2.28	Lu_SC_H69, Lu_AD_358, Lu_AD_H23
		Hs.155014		2.28	HS578T_cells, 293T_cells, CALU6_cells
	D31111	Hs 106005	ESTs; Highly similar to NY-REN-50 antige	2.27	EB_ceils, DU145_ceils, HT29_ceils
	R55470	Hs.11067		2.27	MB-MDA-453, LNCaP_cells, OVCAR_cells
	M97496	Hs.778	guanylate cyclase activator 1B (retina)	2.27	HT29_cells, BT474_cells, Caco2
	HG3576	1101770	Major Histocompatibility Complex, Class	2.26	MB-MDA-435s, MB231_cells, BT474_cells
	U39412	Hs.75932	N-ethylmaletmide-sensitive factor attach	2.26	LNCaP_cells, MB-MDA-453, Caco2
			Gotgi transport complex protein (90 kDa)	2.26	HMEC, HS578T_cells, Caco2
	M22430		phospholipase A2; group IIA (ptatelets;	2.26	LNCaP_cells, BT474_cells, Caco2
	T55340	Hs.208238		2.26	HS578T_cells, EB_cells, HMEC
		Hs.163787		2.25	Lu_SQ_H520, Lu_LC_H460, Lu_SC_H69
			ESTs; Weakly similar to Wiscott-Aldrich	2.25	MB-MDA-435s, Fibroblasts 2, HMEC (total RNA)
	C00476		small inducible cytokine subfamily B (Cy	2.25	Lu_SQ_H520, BT474_cells, Fibroblasts 2
	N91481	Hs.54713		2.25	HMEC (total RNA), HMEC, MCF7
		Hs.190228		2.24	HS578T_cells, EB_cells, HMEC
	U59286		small inducible cytokine subfamily B (Cy	2.24	HMEC, HS578T_cells, Fibroblasts 2
	T96374	Hs.5753	inositol(myo)-1(or 4)-monophosphatase 2	2.24	A549_cells, DU145_cells, Lu_AD_358
	M73720	Hs.646	carboxypeptidase A3 (mast cell)	2.24	HS578T_cells, Fibroblasts 2, HT29_cells
	AA411882		ESTs	2.24	MB-MDA-453, OVCAR_cells, 293T_cells
	HG2348	INLEGECO	Peptide Yy	2.24	HMEC, HS578T_cells, HMEC (total RNA)
	N66357	Hs.89761		2.23	Lu_SQ_H520, LNCaP_cells, Lu_AD_H23
	U57627		oculocerebrorenal syndrome of Lowe	2.23	293T_cells, EB_cells, LNCaP_cells
	AA452788	16,201/10	zx39g11.r1 Soares_total_fetus_Nb2HF8_9w	2.20	500. Commy cp-ound stream Towns
12,001	77772100		IMAGE:788900 5', mRNA seq.	2.23	HS578T_ceils, RPWE_2, HMEC (total RNA)
135288	AA402930	He 97876	ESTs	2.23	HS578T_cells, 293T_cells, OVCAR_cells
	AA278850		ESTs; Weakly similar to IIII ALU SUBFAMI	2.23	BT474_cells, BT474_cells, MB231_cells
			ESTs; Weakly similar to NFAT1-A [M.muscu		Lu SC H345, Lu_AD_H23, PRSC_con
	H87171	Hs.52170		2.22	Fibroblasts 2, Lu_LC_H460, HMEC (total RNA)
			breast carcinoma amplified seq 1	2.22	BT474_cells, HT29_cells, HT29_cells
	U29091	Hs.7833	selenium binding protein 1	2.22	LNCaP_cells, MB-MDA-453, BT474_cells
	N58461	Hs.22036		2.22	HMEC, Lu_SC_H345, HS578T_cells
	L27670		intercellular adhesion molecule 4; Lands	2.21	Lu_AD_H23, HS578T_cells, Lu_SQ_H520
	T52700	Hs.110044		2.2	Caco2, MB-MDA-453, HT29_cells
	F05063	Hs.251736	•	2.2	HS578T_cells, BT474_cells, 293T_cells
	N62263	Hs.48501		2.2	HS578T_cells, BT474_cells, MB231_cells
	Al149662			2.19	BT474_cells, CALU6_cells, MB231_cells
	W33178	Hs.26912		2.19	HMEC, HMEC (total RNA), Fibroblasts 2
	AF002224	113.20312	H saplens Angelman Syndrome Gene, E6-AP		THEO, THEO (Wall day), Thiobase 2
100031	A 002224		from promoter P1, 5'UTR	2.19	HS578T_cells, CALU6_cells, 293T_cells
100151	A 4 1 7 6 8 0 0	Hs.73452		2.19	CALU6_ceils, Lu_AD_H23, Lu_SC_H69
	AA086057		ribosomal protein; mitochondrial; S12	2.19	OVCAR_cells, A549_cells, Lu_AD_H23
		Hs.58069		2.19	HS578T_cells, BT474_cells, A549_cells
	H92575			2.18	Lu_AD_358, Lu_SC_H69, Lu_SC_H345
		Hs.111207	ESTs; Weakly similar to IIII ALU SUBFAMI	2.18	HMEC (total RNA), HMEC, MB-MDA-435s
	N27628	N3.11120/	yw50b08.s1 Weizmann Olfactory Epithelium		LNCaP_cells, DU145_cells, Lu_SQ_H520
	W80709	Un E040E		2.18	HS578T_cells, MB231_cells, Caco2
		Hs.58485		2.18	Lu_AD_H23, Lu_SQ_H520, Lu_AD_358
		Hs.112889 Hs.53115		2.17	Caco2, 293T_cells, 293T_cells
	T83659	Hs.184407		2.16	Lu_AD_H23, Lu_AD_358, PRSC_con
	Z38152	Hs.26920		2.15	HMEC (total RNA), HMEC, EB_cells
	T59001	Hs.10475		2.15	HMEC, HT29_cells, MB231_cells
	M21121		small inducible cytokine A5 (RANTES)	2.15	HS578T_cells, PC3_cells, A549_cells
	AA599723	. 10.271032	TAP binding protein (tapasin)	2.15	HS578T_cells, EB_cells, Lu_SC_H69
	R77302	Hs.20226		2.14	HMEC (total RNA), HMEC, Fibroblasts 2
	N/ / JUZ				HMEC, HMEC (total RNA), HT29_cells
1105/12					
	H58715	Hs.14706		2.14	
101581	H58715 M34996	Hs.14706 Hs.198253	major histocompatibility complex; class	2.14	MB-MDA-435s, HMEC, HMEC
101581 115248	H58715 M34996 AA278887	Hs.14706 Hs.198253 Hs.194530	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple	2.14 2.14	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells
101581 115248 105619	H58715 M34996 AA278887 AA280810	Hs.14706 Hs.198253 Hs.194530 Hs.24003	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL	2.14 2.14 2.14	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells
101581 115248 105619 128058	H58715 M34996 AA278887 AA280810 Al126617	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs	2.14 2.14 2.14 2.14	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA)
101581 115248 105619 128058 134573	H58715 M34996 AA278887 AA280810 AI126617 AA442125	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID	2.14 2.14 2.14 2.14 02.14	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2
101581 115248 105619 128058 134573 134863	H58715 M34996 AA278887 AA280810 AI126617 AA442125 AA353903	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo	2.14 2.14 2.14 2.14 2.14 2.14	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells
101581 115248 105619 128058 134573 134863 128811	H58715 M34996 AA278887 AA280810 AI126617 AA442125 AA353903 H17317	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.13	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Cacc2 Lu_SC_H345, HT29_cells, BT474_cells Cacc2, Lu_SC_H345, EB_cells
101581 115248 105619 128058 134573 134863 128811 112368	H58715 M34996 AA278887 AA280810 Al126617 AA442125 AA353903 H17317 R59371	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST	2.14 2.14 2.14 2.14 2.14 2.14	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells
101581 115248 105619 128058 134573 134863 128811 112368	H58715 M34996 AA278887 AA280810 AI126617 AA442125 AA353903 H17317	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yearly homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarlan cancer (#93	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.13 2.13	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520
101581 115248 105619 128058 134573 134863 128811 112368 108395	H58715 M34996 AA278887 AA280810 AI126617 AA442125 AA353903 H17317 R59371 AA075144	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarlan cancer (#93 gb;X1664 TRANSLATIONALLY CONTROLLY	2.14 2.14 2.14 2.14 2.14 2.14 2.13 2.13 ED TUM	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB21_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells
101581 115248 105619 128058 134573 134863 128811 112368 108395	H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144 D45680	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.169100 Hs.26653	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f5.s1 Stratagene ovarian cancer (#93 gb;X1664 TRANSLATIONALLY CONTROLL ESTs	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253	H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.169100 Hs.26653 Hs.11614 Hs.99931	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb:X1664 TRANSLATIONALLY CONTROLLI ESTs sarcoglycan; alpha (50kD dystrophin-asso	2.14 2.14 2.14 2.14 2.14 2.14 2.13 2.13 ED TUM 2.13 2.13	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701	H58715 M34996 AA278887 AA288810 AI126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212	Hs.14706 Hs.198253 Hs.194530 Hs.194530 Hs.24003 Hs.132449 Hs.17873 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRIL-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb:X1664 TRANSLATIONALLY CONTROLLE ESTs sarcoglycan; alpha (50kD dystrophin-asso ESTs; Weakly similar to mucin glycoprote	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.13 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628	H58715 M34996 AA278887 AA288810 Al126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212 R15825	Hs.14706 Hs.198253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRIL-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb;X1664 TRANSLATIONALLY CONTROLLE ESTs sarcoglycan; alpha (50kO dystrophin-asso ESTs; Weakly similar to mucin glycoprote KIAA0946 protein; Huntingfin Interacting	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.12 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675	H58715 M34996 AA278887 AA280810 Al126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212 R15825 AA115240	Hs.14706 Hs.199253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.61816	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb:X1664 TRANSLATIONALLY CONTROLLE ESTs sarcoglycan; alpha (50kD dystrophin-asso ESTs; Weakly similar to mucin glycoprote KIAA0946 protein; Huntingtin interacting ESTs	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.12 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23 A549_cells, BT474_cells, MB-MDA-435s Lu_AD_H23, MB-MDA-453, PRSC_con
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675 127131	H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212 R15825 AA115240 Z44658	Hs.14706 Hs.199253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.61816 Hs.105460	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.saple ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb:X1664 TRANSLATIONALLY CONTROLLE ESTs sarcoglycan; alpha (50kD dystrophin-asso ESTs; Weakly similar to mucin glycoprote KIAA0946 protein; Huntingtin interacting ESTs DKFZP56400823 protein	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.12 2.12 2.12 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SC_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SC_H520 2.13
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675 127131 109590	H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212 R15825 AA115240 Z44658 F02465	Hs.14706 Hs.199253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.61816 Hs.105460 Hs.27281	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST 2m86f6.s1 Stratagene ovarian cancer (#93 gb.X1664 TRANSLATIONALLY CONTROLLI ESTs sarcoglycan; alpha (50kD dystrophin-asso ESTs; Weakly similar to mucin glycoprote KIAA0946 protein; Huntingtin Interacting ESTs DKFZP564O0823 protein ESTs	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.12 2.12 2.12 2.12 2.12 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23 A549_cells, BT474_cells, MB-MDA-435s Lu_AD_H23, MB-MDA-453, PRSC_con EB_cells, Lu_SC_H69, Lu_SC_H69 HMEC, HS578T_cells, HMEC (total RNA)
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675 127131 109590 116539	H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212 R15825 AA115240 Z44658 F02465 D12124	Hs.14706 Hs.198253 Hs.194530 Hs.194530 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.61816 Hs.105460 Hs.27281 Hs.242890	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb:X1664 TRANSLATIONALLY CONTROLLS ESTs sarcoglycan; alpha (50kD dystrophin-asso ESTs; Weakly similar to mucin glycoprote KIAA0946 protein; Huntingtin Interacting ESTs ESTs	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.12 2.12 2.12 2.12 2.12 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23 A549_cells, BT474_cells, MB-MDA-435s Lu_AD_H23, MB-MDA-453, PRSC_con EB_cells, Lu_SC_H69, Lu_SC_H69 HMEC, HS578T_cells, HMEC (total RNA) Lu_AD_H23, Caco2, BT474_cells
101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675 127131 109590 116539	H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144 D45680 L34355 AA515212 R15825 AA115240 Z44658 F02465	Hs.14706 Hs.199253 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.183373 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.61816 Hs.105460 Hs.27281	major histocompatibility complex; class ESTs; Weakly similar to unknown [H.sapie ESTs; Moderately similar to LEYDIG CELL ESTs ESTs; Weakly similar to PUTATIVE STEROID ATX1 (antioxidant protein 1; yeast) homo ESTs; Weakly similar to HPBRII-7 protein EST zm86f6.s1 Stratagene ovarian cancer (#93 gb:X1664 TRANSLATIONALLY CONTROLLS ESTs sarcoglycan; alpha (50kD dystrophin-asso ESTs; Weakly similar to mucin glycoprote KIAA0946 protein; Huntingtin Interacting ESTs ESTs	2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 ED TUM 2.13 2.12 2.12 2.12 2.12 2.12 2.12 2.12	MB-MDA-435s, HMEC, HMEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520 2.13 HMEC (total RNA), HMEC, OVCAR_cells HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23 A549_cells, BT474_cells, MB-MDA-435s Lu_AD_H23, MB-MDA-453, PRSC_con EB_cells, Lu_SC_H69, Lu_SC_H69 HMEC, HS578T_cells, HMEC (total RNA)

126367	AA477929	Hs.25584	ESTs	2.12	Lu_SC_H69, Lu_AD_H23, Lu_AD_358
135252	U62966	Hs.97207	solute carrier family 28 (sodium-coupled	2.11	MB-MDA-435s, 293T_cells, CALU6_cells
117565	N34301	Hs.248426		2.11	HMEC, HS578T_cells, MB231_cells
129430	AA258842	Hs.197877	H saplens clone 23777 putative transmemb	2.11	HS578T_cells, Lu_AD_358, MB-MDA-435s
	AA169801		sema domain; immunoglobulin domain (lg);	2.11	HMEC, HMEC (total RNA), EB_cells
	D20342	Hs.178137	transducer of ERBB2; 1 (TOB1)	2.11	HMEC (total RNA), 293T_cells, OVCAR_cells
130397	AA487452	Hs.155344	DNA fragmentation factor, 45 kD; alpha s	2.11	293T_cells, Caco2, Lu_AD_H23
	D20925	Hs.5842	ESTs	2.11	HMEC (total RNA), Fibroblasts 2, HMEC
117633	N36404	Hs.44807	ESTs	2.11	HMEC, Caco2, HS578T_cells
125003	T59442	Hs.100445		2.11	MB-MDA-435s, HMEC (total RNA), HT29_cells
125329	AA825437	Hs.58875	ESTs	2.11	HS578T_cells, PRSC_con, PRSC_log
114065	Z38149	Hs.134015	uronyl 2-sulfotransferase	2.11	MB-MDA-435s, 293T_cells, PRSC_con
120718	AA292747	Hs.97296	ESTs	2.11	HT29_cells, Lu_AD_H23, Lu_SC_H69
	T49444	Hs.77031		2.1	Lu_LC_H460, Lu_AD_358, RPWE_2
135351	AA430179	Hs.9933	putative Ac-like transposon	2.1	HS578T_cells, EB_cells, HMEC
	N51529	Hs.118047		2.09	EB_cells, HS578T_cells, MCF7
	AA017161			2.09	HMEC (total RNA), MB231_cells, BT474_cells
	F03935	Hs.241640		2.09	HS578T_cells, Lu_LC_H460, Lu_SC_H69
120311	AA194074			2.09	OVCAR_cells, HMEC (total RNA), HMEC
			DKFZP586N2124 protein	2.09	HMEC (total RNA), BT474_cells, HT29_cells
105871	AA399633	Hs.24872	ESTs	2.09	Fibroblasts 2, A549_cells, HS578T_cells
	Z40805	Hs.91668		2.09	BT474_cells, MB-MDA-453, EB_cells
	R56222	Hs.26514		2.09	Lu_AD_H23, Fibroblasts 2, Lu_LC_H460
	H04811	Hs.79027		2.08	MB-MDA-435s, HMEC (total RNA), Lu_SC_H345
	AA412257			2.08	HMEC, HMEC (total RNA), HS578T_cells
			ESTs; Highly similar to R26660_1; partia	2.08	LNCaP_cells, PRSC_log, PRSC_log
	AA088231			2.08	HS578T_cells, Lu_SC_H345, Lu_SC_H69
	AA489250		serine palmitoyltransferase; subunit II	2.08	EB_cells, Lu_SC_H69, Lu_SC_H345
	J05480	Hs.92	protein phosphatase 3 (formerly 2B); cat	2.08	LNCaP_cells, MB-MDA-435s, HMEC
	AA620814	Hs.144959	ESTs	2.08	HS578T_cells, BT474_cells, BT474_cells
132058	AA251737	Hs.172818	Apg 12 (autophagy 12; S. cerevisiae)-like	2.07	HS578T_cells, MCF7, HMEC
126476	R94666	Hs. 195155	ESTs; Weakly similar to transporter prot	2.07	PRSC_log, Lu_LC_H460, RPWE_2
106087	AA418740	Hs 21111	FSTs	2.07	OVCAR_cells, A549_cells, Lu_AD_H23
	AA122003			2.07	HMEC, HMEC (total RNA), HS578T_cells
	AA908225			2.07	EB_cells, Fibroblasts 2, Lu_SC_H69
	R98491	Hs.14584		2.07	HMEC, HMEC (total RNA), Fibroblasts 2
	N56984	Hs.74335	heat shock 90kD protein 1; beta	2.07	LNCaP_cells, DU145_cells, 293T_cells
	AA425294			2.07	LNCaP_cells, MB-MDA-453, Caco2
	N62868	Hs.48653	ESTs	2.07	HMEC (total RNA), HMEC, EB_cells
	AA128486		ESTs	2.07	LNCaP_cells, PC3_cells, EB_cells
	U36922		Human fork head domain protein (FKHR) mR		293T_cells, HMEC, HT29_cells
	F09380	Hs.182859		2.06	BT474_cells, BT474_cells, Lu_AD_H23
109802		Hs.12439		2.06	EB_cells, EB_cells, Caco2
	AA905960			2.06	HT29_cells, HMEC (total RNA), HMEC
	AI018343			2.06	PRSC_con, Lu_SC_H345, HS578T_cells
	H39997	Hs.33716		2.06	HMEC (total RNA), HMEC, EB_cells
	AA455528			2.05	LNCaP_cells, Lu_AD_H23, HS578T_cells
	AA884838			2.05	HMEC, HMEC (total RNA), Fibroblasts 2
			H saplens mRNA from chromosome 5q21-22;		MB-MDA-435s, Lu_LC_H460, Lu_SQ_H520
	AA365644	Hs 97043	FSTs	2.05	HS578T_cells, PRSC_con, HMEC
	AA303166			2.05	HMEC (total RNA), LNCaP_cells, PC3_cells
	AA399260			2.05	Fibroblasts 2. HMEC (total RNA), EB_cells
	AA001976			2.05	HS578T_cells, HMEC, BT474_cells
	AA129468			2.04	HS578T_cells, HMEC, A549_cells
			H saplens clone 25248 mRNA seq	2.04	HS578T_cells, PC3_cells, 293T_cells
	M94167		neuregulin 1		HMEC, HS578T_cells, HMEC (total RNA)
	W85931	Hs.58785	ESTs	2.04	HMEC, BT474_cells, MB231_cells
	AA242826			2.04	HMEC, HS578T_cells, MB251_cells
	R06984	Hs.7745	caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC	2.04	Fibroblasts 2, PRSC_con, HMEC
			diacylglycerol O-acyltransferase (mouse)	2.03	PC3_cells, EB_cells, HS578T_cells
122210	N48682	Hs.172971		2.03	HT29_cells, PC3_cells, A549_cells
	AA431334			2.03	OVCAR_cells, A549_cells, Cacc2
	AA251301	113, 103237		2.03	OVCAT_coils, ASHS_coils, Cocce
120-101	, 5420 100 1		zs10b02.s1 NCL_CGAP_GCB1 H sapiens cDN contains Alu repetitive element, mRNA		HS578T_cells, EB_cells, EB_cells
124050	U90550	Hs.91813		2.03	
		Hs.14543		2.03	HMEC, Fibroblasts 2, EB_cells Lu_SC_H345, PC3_cells, DU145_cells
	S79219	Hs.80741		2.03	Lu_SC_H69, EB_cells, CALU6_cells
				2.03	
	D78947	Hs.7718 Hs.32938		2.02	EB_cells, MCF7, MB231_cells ·
103459			insulin promoter factor 1; homeodomain t	2.02	EB_cells, Lu_AD_H23, Lu_AD_358
			tetraspanin TM4-B	2.02	A549_cells, Lu_SQ_H520, Lu_AD_H23
116657		Hs.65996	ESTs	2.01	HS578T_cells, HMEC, MB231_cells
112920		Hs.4275		2.01	HS578T_cells, EB_cells, PRSC_con
	AA258572	⊓5.041ŏ	ESTs; Moderately similar to seven transm	2.01	HS578T_ceils, HMEC, EB_ceils
126/62	AA064671		zm13b04.r1 Stratagene pancreas (#937208)		AA4 DRIVE A L. AD 199 L. AD 079
400000	D27000	U. 407705	similar to TR:G413842 G413842 NONCLASS		2.01 RPWE_2, Lu_AD_H23, Lu_AD_358
126999	R37808	Hs.107765	E018	2.01	HS578T_cells, OVCAR_cells, EB_cells

133902 AA114858 Hs.7745 ESTs; Weakly similar to TESTIS-SPECIFIC 2

Fibroblasts 2, PRSC_con, DU145_cells

Table 2

Pkey: Unique Eos probeset identifier number
ExAccn: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Acen	UniG_ID	Complete_Title	Ratio Mets/BS	Top 3 expressing cell lines
101447	M21305	Hs.247946	Human alpha satellite and satellite 3 ju	110.98	EB_ceils, Fibroblasts 2, A549_ceils
	AA130349			9.13	EB_cells, OVCAR_cells, Lu_SC_H345
	AA419461			8.51	HT29_cells, MB-MDA-453, HS578T_cells
105777	AA348412	Hs.23096	ESTs	8.4	293T_cells, OVCAR_cells, EB_cells
	N54841	Hs.172572		7.2	Lu_SC_H69, EB_cells, Lu_SC_H345
	N66845		ESTs; Weakly similar to !!!! ALU CLASS B	7	DU145_cells, EB_cells, Cacc2
	R48744	Hs.192878		6.91	293T_cells, DU145_cells, HT29_cells
			ESTs; Highly similar to unknown [H.saple	6.6	EB_cells, 293T_cells, DU145_cells
	R79750			6.58	293T_cells, OVCAR_cells, HMEC
	AA285053			6.55	CALU6_cells, OVCAR_cells, EB_cells
	AA404564			6.43	EB cells, LNCaP_cells, Lu_SC_H345
	N67086	Hs.102000		6.35	PC3_cells, A549_cells, DU145_cells
134238	R81509	Hs.184571	splicing factor; arginine/serine-rich 11	6.32	293T_cells, Lu_SC_H345, HMEC
	AA131450			6.13	Caco2, MB-MDA-435s, PRSC_log
	AA424791		KIAA0679 protein	6	OVCAR_cells, EB_cells, 293T_cells
	AA081079		zn32h9.s1 Stratagene endothelial cell 93		
			IMAGE:549185 3', mRNA seq	5.97	PRSC_con, DU145_cells, HS578T_cells
130281	R12777	Hs.15395	ESTs; Weakly similar to ARGINYL-TRNA SYM	N	5.94 PRSC_con, HT29_cells, EB_cells
124690	R05818	Hs.173830		5.92	LNCaP_cells, EB_cells, OVCAR_cells
113490	T88700	Hs.173374	ESTs	5.81	DU145_cells, PC3_cells, HMEC (total RNA)
104425	H88496	Hs.40583	ESTs	5.77	OVCAR_cells, HS578T_cells, A549_cells
118828	N79496	Hs.50824	EST	5.45	LNCaP_cells, OVCAR_cells, DU145_cells
129076	AA262179			5.35	293T_cells, BT474_cells, MCF7
109684	F09317	Hs.140885	ESTs; Weakly similar to LINE-1 REVERSE T	5.34	Fibroblasts 2, Lu_SC_H69, DU145_ceils
104558	R56678	Hs.88959	Human DNA seq from clone 967N21 on chr 2		
			part of KIAA0172; the gene for a novel	5.32	EB_ceils, PC3_cells, Lu_SC_H345
109032	AA158234	Hs.72222	ESTs	5.23	HT29_cells, PC3_cells, Lu_AD_358
129350	U50535	Hs.110630	Human BRCA2 region; mRNA seq CG006	5.2	293T_cells, EB_cells, DU145_cells
112662	R85436	Hs.193150	ESTs	5.2	MB-MDA-435s, PRSC_con, MB-MDA-453
132902	AA490969	Hs.168147	ESTs	5.18	PC3_cells, LNCaP_cells, CALU6_cells
	AA136653		ESTs	5.04	EB_cells, Fibroblasts 2, A549_cells
	AA449804	Hs.250992		5.04	Lu_SC_H345, PRSC_con, LNCaP_cells
	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	5.02	Lu_LC_H460, A549_cells, MB-MDA-435s
121332	AA404384			5.01	EB_cells, Lu_SC_H69, DU145_cells
	AA235803			4.96	EB_cells, MCF7, DU145_cells
	AA176428			4.86	DU145_cells, PC3_cells, PRSC_log
	AA082041		ESTs	4.83	EB_cells, Lu_SC_H345, HS578T_cells
	R70506		ESTs; Wealdy similar to IIII ALU SUBFAMI	4.75	DU145_cells, OVCAR_cells, LNCaP_cells
	U40434	Hs.155981		4.71	OVCAR_cells, Lu_AD_H23, RPWE_2
	AA826117			4.69	EB_cells, HS578T_cells, DU145_cells
	T78089	Hs.168887		4.58	OVCAR_cells, 293T_cells, DU145_cells Lu_SC_H345, Lu_SC_H69, HT29_cells
	U52696	Ha 220200	Humn adrenal Creb-rp hmlg (Creb-rp), com Human endogenous retrovtral protease mRN	4.57 4.57	PC3_cells, EB_cells, Lu_SQ_H520
	AA255991			4.57 4.57	OVCAR_cells, 293T_cells, PC3_cells
172470	AA599106	He 404200	ECTA	4.55 ·	LNCaP_cells, Lu_SC_H69, 293T_cells
	T59257	Hs.194407		4.55	A549_ceils, 293T_ceils, 293T_ceils
	AA598661	He 112/72	FSTe	4.55	EB_cells, OVCAR_cells, HT29_cells
125182	M28170		CD19 antigen	4.53	OVCAR cells, DU145_cells, EB_cells
	AA419470			4.51	DU145_cells, LNCaP_cells, EB_cells
120126	H88486	Hs.108806	ESTa	4.45	LNCaP_cells, Caco2, EB_cells
135232	AA342457	Hs.96800	ESTs; Moderately similar to !!!! ALU SUB	4.43	LNCaP_cells, DU145_cells, OVCAR_cells
	R60044	Hs.106706	ESTs; Highly similar to BETA-CATENIN [H.	4.42	OVCAR_cells, CALU6_cells, CALU6_cells
	H40988		ESTs: Weakly similar to IIII ALU SUBFAMI	4.39	DU145_cells, OVCAR_cells, LNCaP_cells
	U25165	Hs.82712	fragile X mental retardation; autosomal	4.38	HS578T_cells, OVCAR_cells, DU145_cells
	AA290603			4.36	Lu_SC_H345, OVCAR_cells, PC3_cells
	R71234		yi54c08.s1 Soares placenta Nb2HP H saple		
			transcript, (rRNA); gb:S41458 ROD CGMP-		
			BETA-SUBUNIT (HUMAN);contain	4.33	DU145_cells, OVCAR_cells, LNCaP_cells
121943	AA429265	Hs.126759	ESTs	4.3	EB cells, HT29_cells, Lu_SC_H69
110856	N33063	Hs.23291		4.28	OVCAR_cells, EB_cells, Lu_SC_H69
102474	U49973		Human Tigger1 transposable element, comp	4.28	DU145 cells, LNCaP_cells, OVCAR_cells
123458	AA598963	Hs.112499	KIAA0612 protein	4.27	A549_cells, A549_cells, BT474_cells
116459	AA621399	Hs.64193	ESTs	4.22	Carco2, HS578T cells, MB-MDA-435s
126301	N62371	Hs.100043	ESTs; Weakly similar to Similar to cutic	4.22	PC3_cells, DU145_cells, Lu_SC_H345
123461	AA598990			4.22	Lu_SC_H345, Lu_SC_H69, OVCAR_cells

400500		11- 40444	11 . m) 14		
130588	AA287735	Hs.16411	Human DNA seg from clone 1189B24 on chro)	
			MLRQ subunit (EC 1.6.5.3; EC 1.6.99.3; Tyrosine-protein Kinase FER (EC 2.7.1.1	4.2	EB_cells, LNCaP_cells, MCF7
125756	W25498	Hs.81634		4.2	HMEC, EB_cells, DU145_cells
	AA040507			4.19	293T_cells, EB_cells, DU145_cells
	AA598589			4.18	293T_cells, DU145_cells, EB_cells
	R82063	Hs.101594	EST	4.16	OVCAR_cells, Lu_SC_H345, HMEC (total RNA)
	T92950		ye27c10.s1 Stratagene lung (#937210) H s	4.15	DU145_cells, PC3_cells, Fibroblasts 2
125090	T91518		ye20f05.s1 Stratagene lung (#937210) H s		LNCoD selle DIMAE selle OVCAR selle
117349	N24157	Hs.139615	contains Alu repetitive element;contain	4.14 4.1	LNCaP_cells, DU145_cells, OVCAR_cells Lu_SC_H345, Lu_SC_H69, PRSC_log
	N95837		ESTs; Weakly similar to L82A [D.melanoga	4.1	DU145_cells, MCF7, LNCaP_cells
	AA464698		ESTs; Weakly similar to bullous pemphigo	4.09	OVCAR_cells, Fibroblasts 2, Lu_SC_H69
	R06273		ESTs; Moderately similar to IIII ALU SUB	4.09	OVCAR_cells, Lu_SC_H345, PRSC_con
	H09570		ESTs; Weakly similar to neuronal thread	3.98	DU145_cells, OVCAR_cells, Lu_SC_H345
	R46354		zinc finger protein 42 (myeloid-specific	3.98	HT29_cells, MB231_cells, BT474_cells
	H51652		hemoglobin; gamma G	3.96	Lu_SC_H69, OVCAR_cells, EB_cells
	Z38904 AA180356		ESTs; Wealty similar to KIAA0970 protein EST	3.94 3.94	HS578T_cells, EB_cells, PRSC_con 293T_cells, MB-MDA-435s, A549_cells
		Hs.98564		3.93	PC3_cells, A549_cells, OVCAR_cells
			interferon; alpha-inducible protein (clo	3.9	CALU6_cells, EB_cells, Lu_SC_H69
		Hs.103422	ESTs	3.9	Lu_AD_H23, EB_cells, Lu_SC_H69
	T33859	Hs.190452	KIAA0365 gene product	3.89	293T_cells, DU145_cells, EB_cells
		Hs.10669	· · · · · · · · · · · · · · · · ·	3.89	PC3_cells, HS578T_cells, DU145_cells
	AA236034		ESTs	3.89	Caco2, EB_cells, CALU6_cells
	AA599037		SWI/SNF related; matrix assocd; actin de	3.86	EB_cells, LNCaP_cells, Caco2 OVCAR_cells, DU145_cells, EB_cells
	AA463215 AA400091		ESTs; Weakly similar to profine-rich pro ESTs	3.85 3.85	OVCAR_cells, OVCAR_cells, LNCaP_cells
		Hs.103135		3.84	EB_cells, LNCaP_cells, OVCAR_cells
	U48936	110.100100	Human amiloride-sensitive epithelial sod	3.84	HT29_cells, BT474_cells, Lu_SC_H69
	T98288	Hs.193295	ESTs; Weakly similar to !!!! ALU SUBFAMI	3.82	DU145_cells, OVCAR_cells, LNCaP_cells
116000	AA448710	Hs.41327		3.82	DU145_cells, MB-MDA-453, Lu_SC_H69
120748	AA303153	Hs.237994	EST; Weakly similar to !!!! ALU SUBFAMIL	3.82	DU145_cells, DU145_cells, Lu_SC_H345
		Hs.58570	deleted in cancer 1; RNA helicase HDB/DI	3.79	MB-MDA-453, CALU6_cells, EB_cells
	Z41747	Hs.469	succinate dehydrogenase complex; subunit	3.78	DU145_cells, Fibroblasts 2, Caco2
	D59894	Hs.34782	ESTS	3.75	LNCaP_cells, DU145_cells, EB_cells OVCAR_cells, EB_cells, Lu_SC_H345
	U24683	Hs.55335	ESTs Immunoglobulin heavy variable 4-4	3.75 3.73	EB_cells, OVCAR_cells, 293T_cells
				3.72	293T_cells, DU145_cells, EB_cells
	W86779		DKFZP586B0319 protein	3.71	EB_cells, Caco2, DU145_cells
	AA452590		ESTs	3.67	EB_cells, LNCaP_cells, 293T_cells
	Z41592	Hs.22129	hypothetical protein	3.67	HT29_cells, Lu_SQ_H520, Lu_SQ_H520
	J03764	Hs.82085	plasminogen activator inhibitor, type I	3.67	Fibroblasts 2, HS578T_cells, MB231_cells
	AA002091		ESTs; Weakly similar to IIII ALU SUBFAMI	3.67	OVCAR_cells, LNCaP_cells, Lu_SC_H345
	R21408	Hs.106095		3.66 3.66	OVCAR_cells, A549_cells, 293T_cells Lu_SC_H345, Caco2, OVCAR_cells
	AJ242720		ESTs; Weakly similar to alternatively sp ESTs; Weakly smlr to smlr to glycerophos	3.61	EB_cells, HS578T_cells, LNCaP_cells
	H44061	Hs.194026		3.6	Lu_SC_H345, OVCAR_cells, DU145_cells
	Z46632	Hs.189	phosphodiesterase 4C; cAMP-specific (dun	3.6	Lu_SC_H69, Lu_AD_H23, Lu_SC_H345
		Hs.105653		3.6	293T_cells, MB231_cells, Fibroblasts 2
	Z41038	Hs.469	succinate dehydrogenase complex; subunit	3.6	DU145_cells, HS578T_cells, CALU6_cells
	AA233231		ESTs	3.59	BT474_cells, MB231_cells, HT29_cells
		Hs.211167		3.59	Lu_SQ_H520, MB-MDA-435s, DU145_cells
	AA608657	⊔ ₀ 440024	ESTs; Moderately similar to IIII ALU SUB	3.59	DU145_cells, OVCAR_cells, LNCaP_cells
			EST; Highly similar to dJ1163J1.2.1 [H.s ESTs; Moderately similar to KIAA0400 [H.	3.58 3.58	Lu_SC_H345, OVCAR_cells, PRSC_con PC3_cells, DU145_cells, HS578T_cells
	R06108	Hs.135258		3.56	Lu_AD_H23, Lu_SQ_H520, Lu_AD_358
			FSHD region gene 1	3.56	DU145_cells, EB_cells, A549_cells
	N66951				PC3_cells, EB_cells, MB231_cells
	AA156670	Hs.180780	H saplens agrin precursor mRNA; partial	3.54	OVCAR_cells, DU145_cells, PC3_cells
	U33821		Tax1 (human T-cell leukemia virus type I	3.53	MB231_cells, CALU6_cells, BT474_cells
	D25807	Hs.90145	ESTs	3.52	MB231_cells, BT474_cells, Lu_SC_H345
	N80361	Hs.14248	ESTs	3.51	DU145_cells, Lu_SC_H345, OVCAR_cells HT29_cells, OVCAR_cells, HMEC
122878	AA465341 AA210695	Hs.99640	ESTs ESTs	3.47 3.47	MB-MDA-435s, HT29_cells, HT29_cells
100220	AA731636	Hs 59319	ESTs; Weakly similar to IIII ALU SUBFAMI	3.45	LNCaP cells, DU145_cells, Lu_SC_H345
	R88741	Hs.91065	ESTs; Moderately similar to proliferatio	3.44	EB_cells, LNCaP_cells, DU145_cells
	AA063280	Hs.35552	ESTs	3.43	LNCaP_cells, CALU6_cells, 293T_cells
	J04813	Hs.104117	cytochrome P450; subfamily IIIA (niphedi	3.41	HT29_cells, A549_cells, Fibroblasts 2
131996	D86956	Hs.36927	heat shock 105kD	3.4	EB_cells, PC3_cells, Lu_SC_H345
	T03229		H saplens (clone 104) retinoblastoma 1 g	3.4	DU145_cells, Lu_SC_H345, EB_cells
	AA873285	Hs.137947		3.39	EB_cells, LNCaP_cells, DU145_cells
	AA186804		ESTs; Weakly similar to ubiquitous TPR m	3.39	PC3_ceils, MCF7, DU145_ceils Cacc2, EB_ceils, Lu_SC_H69
	Y00705 M32053	113.101200	serine protease inhibitor, Kazal type 1 Human H19 RNA gene, complete cds	3.38 3.37	LU_SC_H69, MCF7, OVCAR_cells
146380	AA599011		troponin T1; skeletat; slow	3.36	DU145_cells, LNCaP_cells, OVCAR_cells
1 10000					

	AA182001			3.36	DU145_cells, MB-MDA-435s, HS578T_cells
	AA214615			3.33	HT29_cells, Fibroblasts 2, BT474_cells
106278	AA432292	Hs.23388	ESTs; Moderately similar to IIII ALU SUB	3.33	EB_cells, Fibroblasts 2, BT474_cells
127241	AA321849	Hs.248340	H saplens mRNA; cDNA DKFZp564J2116 (fro	ım	3.32 LNCaP_cells, DU145_cells, EB_cells
133339	N64588	Hs.71252		3.32	DU145_cells, EB_cells, Caco2
113260		Hs.237992		3.32	Lu_SC_H345, LNCaP_cells, Lu_SC_H69
133349					
			L-3-hydroxyacyl-Coenzyma A dehydrogenase		Caco2, EB_cells, OVCAR_cells
	AA621159			3.29	HS578T_cells, DU145_cells, PRSC_con
133195	AA350744	Hs.181409	KIAA1007 protein	3.29	EB_cells, Lu_AD_H23, Lu_AD_358
111302		Hs.15049		3.29	DU145_cells, EB_cells, HS578T_cells
106414	AA447971	Hs 28827	ESTs	3.28	A549_cells, OVCAR_cells, PC3_cells
			insulin-like growth factor 2 (somatomedi	3.28	Caco2, PRSC_con, PRSC_log
		Un 40752	ECT-: Masky similar to hypothetical and		PRSC_log, CALU6_cells, OVCAR_cells
	H98670	HS.49/33	ESTs; Weakly similar to hypothetical pro	3.28	
		MS.145696	splicing factor (CC1.3)	3.28	EB_cells, LNCaP_cells, DU145_cells
	HG3227-H		Guanine Nucleotide-Binding Protein Hsr1	3.27	EB_cells, RPWE_2, Lu_AD_H23
134275	AA132328	Hs.3688	acid-inducible phosphoprotein	3.26	EB_cells, DU145_cells, LNCaP_cells
117667	N39214	Hs.44708	Ser-Thr protein kinase related to the my	3.26	LNCaP_cells, DU145_cells, MB-MDA-453
	R78604	Hs.101570		3.25	Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
	W95117	Hs.193337		3.25	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
			KIAA0603 gene product	3.24	Caco2, EB_cells, 293T_cells
100040	AA202003	NS. 173002			
132/18	AA056731	MS.354	Sjogren syndrome antigen A2 (60kD; ribon	3.24	CALU6_cells, OVCAR_cells, A549_cells
116417	AA609309	Hs.239302	ESTs; Weakly similar to IIII ALU SUBFAMI	3.24	A549_cells, CALU6_cells, 293T_cells
108039	AA041341	Hs.46670	ESTs	3.24	293T_cells, EB_cells, Caco2
114116	Z38496	Hs.103283	KIAA0594 protein	3.23	DU145_cells, OVCAR_cells, EB_cells
	N58045	Hs.142737		3.22	EB_cells, Caco2, Lu_SQ_H520
110802				3.22	LNCaP_cells, MB-MDA-435s, MB-MDA-453
		Hs.252748			
	AA490899			3.22	DU145_cells, EB_cells, OVCAR_cells
	AA608588			3.21	DU145_cells, LNCaP_cells, OVCAR_cells
131564	AA491465	Hs.28792	ESTs	3.2	HS578T_cells, HMEC (total RNA), HMEC
119423	T99544	Hs.173734	ESTs; Weakly similar to IIII ALU CLASS B	3.2	EB_cells, DU145_cells, Caco2
128736		Hs.104607		3.19	PC3_cells, Lu_SQ_H520, Lu_SC_H69
	M27826		Human endogenous retroviral protease mRN		PC3_cells, DU145_cells, Lu_SQ_H520
	AA043551			3.18	EB_cells, Lu_SC_H345, DU145_cells
	H52617	Hs.144167		3.17	BT474_cells, MB231_cells, HMEC
129095			thrombospondin 2	3.17	Fibroblasts 2, PRSC_con, PRSC_log
116457	AA621367	Hs.119683	ESTs	3.17	293T_cells, Lu_SC_H345, CALU6_cells
117040	H89112		yw25e5.s1 Morton Fetal Cochlea H saplens	3.16	OVCAR_cells, 293T_cells, EB_cells
129112		Hs.108738		3.16	EB_cells, Fibroblasts 2, MB231_cells
130418			insulin-like growth factor 2 (somatomedi	3.16	Caco2, PRSC_con, PRSC_log
131199			ESTs; Weakly similar to transporter prot	3.15	PC3_cells, EB_cells, OVCAR_cells
	H41529		ESTs; Highly similar to sulfonylurea rec	3.15	Lu_SC_H345, PRSC_con, Lu_AD_H23
130068	AA608903		KIAA0336 gene product	3.15	OVCAR_cells, CALU6_cells, HS578T_cells
127423	T47546	Hs.119252	tumor protein; translationally-controlle	3.15	EB_cells, PRSC_con, LNCaP_cells
105028	AA126719			3.14	LNCaP_cells, PC3_cells, EB_cells
	U37547		apoptosis inhibitor 1	3.14	DU145_cells, HS578T_cells, LNCaP_cells
	AA157814		ESTs	3.13	EB_cells, HS578T_cells, LNCaP_cells
					EB_cells, DU145_cells, 293T_cells
	AA286941		ESTs	3.12	
	AA086452		trtadin	3.12	Lu_SQ_H520, Lu_AD_H23, PRSC_log
	AA456112			3.12	DU145_cells, OVCAR_cells, A549_cells
123553	AA608841	Hs.111977	ESTs	3.12	EB_cells, Caco2, DU145_cells
133437	R57419	Hs.7370	ESTs	3.11	HS578T_cells, 293T_cells, Cacc2
			ESTs; Weakly similar to hypothetical pro	3.11	OVCAR_cells, Fibroblasts 2, Caco2
	AA490588			3.11	EB_cells, MB-MDA-435s, HT29_cells
			eukaryotic translation initiation factor	3.11	LNCaP_cells, DU145_cells, EB_cells
					Lu LC H460, Lu_SC_H345, Lu_AD_358
	AA127845			3.11	
129791			KIAA0876 protein	3.1	Lu_SC_H345, Lu_SC_H69, PRSC_log
115783	AA424487	Hs.72289	ESTs; Weakly similar to LIV-1 protein [H	3.09	Lu_AD_358, EB_cells, PC3_cells
107630	AA007218	Hs.60178	ESTs	3.07	Lu_SC_H345, CALU6_cells, Lu_SC_H69
124339	H99093	Hs.6179	H sapiens mRNA; cDNA DKFZp586K2322 (fro	om	3.07 293T_cells, MB-MDA-453, Caco2
	AA442257			3.07	293T cells, LNCaP_cells, PC3_cells
	R79299		ESTs; Moderately similar to IIII ALU SUB	3.07	293T_cells, DU145_cells, EB_cells
					Caco2, EB_ceils, MB231_ceils
			ESTs; Moderately smir to ORF derived frm	3.06	
	AA620390			3.06	Lu_SC_H345, LNCaP_cells, DU145_cells
106483	AA451676	Hs.30299	IGF-II mRNA-binding protein 2	3.06	OVCAR_cells, HMEC (total RNA), HMEC
	AA256168			3.05	OVCAR_cells, LNCaP_cells, 293T_cells
	N20979	Hs.1757	L1 cell adhesion molecule (hydrocephatus		
		• •	thumbs) syndrome; spastic paraplegia 1)	3.05	MB231_cells, MCF7, CALU6_cells
120707	ΔΑΛΩΠΩΕ Λ	He 120040	KIAA0729 protein	3.05	EB_ceils, DU145_ceils, DU145_ceils
					LNCaP_cells, HS578T_cells, Lu_SQ_H520
	D79791		ESTs; Weakly similar to F38A5.1 [C.elega	3.05	
	AA252703			3.04	EB_cells, Fibroblasts 2, PRSC_con
	AA856990			3.03	OVCAR_cells, LNCaP_cells, 293T_cells
106970	AA504835			3.03	EB_cells, OVCAR_cells, 293T_cells
	N34935		ESTs; Highly similar to ARF GTPase-activ	3.03	Lu_AD_358, MCF7, MB231_cells
	W37226	Hs.55573		3.01	293T_cells, HS578T_cells, CALU6_cells
	H99653	Hs.138618		3.01	Lu SC_H345, Lu_SC_H69, PRSC_log
					OVCAR_cells, LNCaP_cells, DU145_cells
130698	AA037357	ris. 166212	E919	3.01	OAOM/Cens' Priori Teens' DO IAOTOCIIS

444040					
111010	N54087	Hs.3628	mitogen-activated protein kinase kinase	3.01	PC3_cells, Caco2, Fibroblasts 2
123196	AA489250	Hs 59403	serine palmitoyitransferase; subunit II	3	Lu_SC_H345, BT474_cells, Lu_SC_H69
133220	AA203433	He 6834	KIAA1014 protein	3	OVCAR_ceils, 293T_ceils, EB_ceils
	H88359		· · · · · · · · · · · · · · · · · · ·	3	
407004	1100333	MS. 100390	nuclear factor (erythroid-derived 2)-lik		PRSC_con, EB_cells, DU145_cells
10/001	AAUZ5567	Hs.61273	H saplens chromosome 19; cosmid R32611	3	LIL_SQ_H520, MCF7, LIL_AD_358
116589	D59570	Hs.17132	ESTs	3	EB_cells, A549_cells, HS578T_cells
105479	AA255546	Hs.23467	ESTs	2.99	Lu_SC_H345, PC3_cells, OVCAR_cells
115560	AA393812	Hs.50575	ESTs; Moderately similar to !!!! ALU SUB	2.99	EB_cells, Lu_SC_H69, Fibroblasts 2
130166	AA350690	Hs.151411	KIAA0916 protein	2.98	LNCaP_cells, EB_cells, 293T_cells
123355	AA504773	Hs.160657	FSTe	2.98	PRSC_con, PRSC_log, PRSC_log
	F01449	Hs.26954		2.97	Lu_SC_H345, HT29_cells, BT474_cells
125001	AAAAA		ESTs; Wealdy similar to proline-rich pro	2.97	EB_cells, Lu_AD_H23, Lu_AD_358
102259	U28369	Hs.82222	sema domain; immunoglobulin domain (lg);	2.97	EB_cells, MB231_cells, OVCAR_cells
105583	AA278907	Hs.24549	ESTs	2.96	EB_cells, DU145_cells, 293T_cells
131859	M90657	Hs.3337	transmembrane 4 superfamily member 1	2.96	A549_cells, PC3_cells, DU145_cells
114533	AA053401	Hs.177526	ESTs	2.96	293T_cells, Lu_LC_H460, PC3_cells
	H23543	Hs.27090	ESTS	2.95	PRSC_log, Lu_SC_H345, MB231_cells
	R91241	Hs.75470	hypothetical protein; expressed in osteo	2.95	Lu_SC_H345, Lu_SC_H69, PRSC_Jog
127 []]	AA600/26	Hs.220509		2.94	HS578T_cells, 293T_cells, 293T_cells
	N73762	Hs.90638	ESTS	2.94	EB_cells, MB-MDA-453, Fibroblasts 2
121788	AA423968	Hs.178113	ESTs; Moderately similar to kinesin like	2.94	HT29_cells, CALU6_cells, HMEC
128530	AA504343	Hs.183475	H saplens clone 25061 mRNA seq	2.94	DU145_cells, Lu_SC_H345, Cacc2
128435	Al301201	Hs.147112	ESTs	2.93	EB_cells, Lu_SQ_H520, PRSC_con
	W15580		phosphate cytidylyltransferase 1; cholin	2.93	EB_cells, Lu_AD_H23, PRSC_log
127560	VVE882538	Hs.191783	ECT.	2.93	EB_cells, HS578T_cells, Lu_AD_358
				2.55	LB_cells, 1100101_cells, Lu_nb_coo
103042	F04465	Hs.22394		0.00	200 H 20 - H 0VOAD H-
			protein US)1 [C.elegans]	2.92	PC3_cells, EB_cells, OVCAR_cells
114615	AA083812	Hs.159456	DKFZP566F123 protein	2.92	A549_cells, HS578T_cells, PRSC_con
126808	AA086320		zn52d12.s1 Stratagene muscle 937209 H sa	2.92	Lu_SC_H69, Lu_SC_H345, EB_cells
113947	W84768	Hs.141742		2.92	DU145_cells, Fibroblasts 2, MCF7
	W27301		DKFZP564A122 protein	2.91	OVCAR_cells, DU145_cells, CALU6_cells
	AA018587		ESTs; Weakly similar to IIII ALU SUBFAMI	2.91	OVCAR_cells, EB_cells, PC3_cells
			RAB7; member RAS oncogene family	2.91	293T_cells, OVCAR_cells, PC3_cells
	R44357		ESTs; Weakly similar to cDNA EST EMBL:T0	2.91	DU145_cells, DU145_cells, CALU6_cells
109751	F10210	Hs.6679	H sapiens mRNA; cDNA DKFZp586A0424 (fro	om	2.91 EB_cells, Lu_SC_H69, 293T_cells
128926	AA481403	Hs.107213	ESTs; Highly similar to NY-REN-6 antigen	2.9	CALU6_cells, EB_cells, OVCAR_cells
	AA459961	Hs.250824		2.9	EB_cells, Caco2, MB-MDA-435s
	U84573		procollagen-lysine; 2-oxoglutarate 5-dio	2.9	DU145_cells, HS578T_cells, A549_cells
	AA905327		ESTs	2.9	MCF7, HMEC (total RNA), 293T_cells
	AA034947	He 24924	ESTs	2.9	EB_cells, Lu_LC_H460, 293T_cells
				2.9	EB_08is, Lu_LO_F460, 2931_08is
126050	N2/20/	Hs.75860	hydroxyacyl-Coenzyme A dehydrogenase/3-k		•
			-Coenzyme A hydratase (trifunctional pro	2.89	LNCaP_cells, DU145_cells, OVCAR_cells
116696			EST	2.89 2.89	LNCaP_cells, DU145_cells, OVCAR_cells CALU6_cells, 293T_cells, 293T_cells
			EST		
135204	AA421146	Hs.183418	EST cell division cycle 2-like 1 (PITSLRE pr	2.89 2.89	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells
135204 134946	AA421146 AA406534	Hs.183418 Hs.193053	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens]	2.89 2.89 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2
135204 134946 114975	AA421146 AA406534 AA250850	Hs.183418 Hs.193053 Hs.13944	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2	2.89 2.89 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells
135204 134946 114975 113792	AA421146 AA406534 AA250850 W35212	Hs.183418 Hs.193053 Hs.13944 Hs.17691	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s	2.89 2.89 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Cacc2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells
135204 134946 114975 113792 102322	AA421146 AA406534 AA250850 W35212 U34962	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box	2.89 2.89 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells MB_MDA_435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23
135204 134946 114975 113792 102322 125642	AA421146 AA406534 AA250850 W35212 U34962 Al096849	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cets, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells
135204 134946 114975 113792 102322 125642 100288	AA421146 AA406534 AA250850 W35212 U34962 Al096849 D43951	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells
135204 134946 114975 113792 102322 125642 100288 105878	AA421146 AA406534 AA250850 W35212 U34962 AI096849 D43951 AA400184	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262	AA421146 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens]	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262	AA421146 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens]	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_ceils, 293T_ceils, 293T_ceils PC3_ceils, EB_ceils, LNCaP_ceils EB_ceils, LNCaP_ceils, Caco2 EB_ceils, EB_ceils, EB_ceils MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419	AA421146 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108514 Hs.106532	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Wealdy similar to hiw! [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Wealdy similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Wealdy similar to transposon LRE2	2.89 2.88 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639	AA421146 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108514 Hs.106532 Hs.17132	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibrobiasts 2 EB_cells, A549_cells, OVCAR_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972	AA421146 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108514 Hs.106532 Hs.17132 Hs.21739	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp58611518 (fro:	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 283T_cells DU145_cells, DU145_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, AS49_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H460
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906	AA421148 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiw! [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp586I1518 (from ESTs; Highly similar to CALCIUM-BINDING	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibrobiasts 2 EB_cells, A549_cells, OVCAR_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906	AA421148 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp586I1518 (frot ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homolog 5 gene; partial	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, H729_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, DU145_cells, 293T_cells DU145_cells, DU145_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2,87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807	AA421146 AA406534 AA250850 W35212 U34962 AN966849 D43851 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.25473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiw! [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp586I1518 (fro ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homolog 5 gene; partial 1C7: LST-1; hymphotoxin beta; tumor necr	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, Calls, Calls DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2.87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807	AA421148 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478 Hs.219614	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp58611518 (fro ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, H729_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, DU145_cells, 293T_cells DU145_cells, DU145_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2,87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807	AA421148 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.25473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp58611518 (fro ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, Calls, Calls DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2.87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807	AA421148 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478 Hs.219614 Hs.231476	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp58611518 (fro: ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homolog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, EB_cells OVCAR_cells, LNCaP_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2.87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2 Lu_AD_H23, Caco2, EB_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807	AA421148 AA406534 AA250850 W35212 U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478 Hs.219614 Hs.231476 Hs.24217	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp58611518 (fro: ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_AD_H23, Caco2, EB_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143	AA421148 AA406534 AA250850 W35212 U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA102644	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478 Hs.231476 Hs.231476 Hs.231476 Hs.94217 Hs.69559	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiw [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586I1518 (frot ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homolog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, DU145_cells, BB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2.87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2 Lu_AD_H23, Caco2, EB_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, 293T_cells
135204 134946 114975 113792 102322 125642 100288 105878 125262 114419 1305972 126906 121807 105474 122348 116348 135143 106711	AA421146 AA406534 AA250850 W35212 U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA512186 AA102644 AA464741	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24856 Hs.108512 Hs.17132 Hs.17132 Hs.21739 Hs.168069 Hs.247478 Hs.231476 Hs.231476 Hs.231476 Hs.231476 Hs.231476 Hs.2431476 Hs.2431476	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiwi [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp58611518 (fro ESTs; Highly similar to CALCIUM-BINDING H sapiens Mut S homolog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs ESTs KIAA1096 protein Human DNA from chromosome 19-specific co	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, DU145_cells, 293T_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2.87 293T_cells, OVCAR_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2 Lu_AD_H23, Caco2, EB_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, 293T_cells EB_cells, Lu_AD_H23, Lu_LC_H460
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135204 134946 114975 113772 102322 102322 125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 135143 106711 128583 132139 114484 124620 100403 129795 128258 102662 132232 106111 123963	AA421148 AA406534 AA250850 W35212 U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA102644 AA464741 L32832 AA213410 AA034378 N74051 D85527 TAA48627 T70214 U70321 AA421638 C13961 AA459895	Hs.183418 Hs.193053 Hs.13944 Hs.17691 Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478 Hs.231476 Hs.231476 Hs.231476 Hs.231476 Hs.252351 Hs.194092 Hs.125163 Hs.183548 Hs.130227 Hs.42640 Hs.6451 Hs.210115	EST cell division cycle 2-like 1 (PITSLRE pr ESTs; Weakly similar to hiw! [H.sapiens] adrenergic; beta; receptor kinase 2 ESTs; Weakly similar to env protein [H.s cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.sapiens] ESTs; Weakly similar to transposon LRE2 ESTs H sapiens mRNA; cDNA DKFZp586I1518 (fro ESTs; Highly similar to CALCiUM-BINDING H sapiens Mut S homolog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs ESTs ESTs ESTs Weakly similar to III ALU SUBFAMI Human DNA from chromosome 19-specific co AT-binding transcription factor 1 ADP-ribosytation factor-like 7 HERV-H LTR-associating 2 ESTs; Weakly similar to IIII ALU SUBFAMI H sapiens mRNA for LIM domain, partial c ESTs; Weakly similar to IIII ALU SUBFAMI ESTs tumor necrosis factor receptor superfami ESTs ESTS EST	2.89 2.89 2.88 2.88 2.88 2.88 2.88 2.88	CALU6_cells, 293T_cells, 293T_cells PC3_cells, EB_cells, LNCaP_cells EB_cells, LNCaP_cells, Caco2 EB_cells, EB_cells, EB_cells MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells 0VCAR_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 2.87 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells HT29_cells, Lu_SC_H69, ET474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, 293T_cells EB_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Lu_SC_H69, ET474_cells EB_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Lu_SC_H69, ET50, MB231_cells Lu_SC_H345, MB231_cells, Fibroblasts 2 Lu_AD_358, Lu_AD_358, MB231_cells Lu_SC_H345, OVCAR_cells, PC3_cells Lu_SC_H345, OVCAR_cells, PC3_cells DU145_cells, DU145_cells, OVCAR_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AC_H460, OVCAR_cells

120823	AA347546	Hs.185780	ESTs	2.82	HT29_cells, HMEC (total RNA), BT474_cells
	D80009		KIAA0187 gene product	2.82	Caco2, PC3_cells, OVCAR_cells
	AA114163			2.81	DU145_cells, MCF7, EB_cells
			ESTs; Moderately similar to serine/threo	2.81	EB_cells, Lu_AD_H23, HT29_cells
	AA064627	He 18341	ESTs; Highly similar to CGI-72 protein [2.81	PC3_cells, HS578T_cells, OVCAR_cells
	AA237013	He 2730	heterogeneous nuclear ribonucleoprotein	2.8	OVCAR_cells, LNCaP_cells, Caco2
	H94877	Lis.2730	CTD binding periods	2.8	LNCaP_cells, DU145_cells, Caco2
			GTP-binding protein	2.8	LNCaP_cells, A549_cells, EB_cells
	D79986	Hs.80338	KIAA0164 gene product		LINORE_0513, AD40_0615, ED_0613
122922	AA476268		zw44h1.s1 Soares_total_fetus_Nb2HF8_9w F	270	LIL CC HOME OVCAD colle LIL CC HEQ
400000		11 4	contains Alu repetitive element; contain	2.79	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
	H42968		paired mesoderm homeo box 1	2.78	Lu_AD_H23, Lu_SC_H69, Lu_LC_H460
			SEC7 homolog	2.78	Lu_AD_H23, EB_ceils, Lu_SC_H345
	AA460957			2.78	EB_cells, OVCAR_cells, 293T_cells
	AA401809			2.77	293T_cells, HS578T_cells, DU145_cells
	T03475	Hs.258624		2.77	EB_cells, Lu_AD_H23, Lu_AD_358
			ESTs; Weakly similar to homology with is	2.77	EB_cells, Lu_LC_H460, MCF7
106048	AA416697	Hs.15330	ESTs	2.76	OVCAR_cells, Lu_SC_H345, 293T_cells
124352	N21626	Hs.102406	ESTs	2.76	MCF7, MB-MDA-453, CALU6_cells
129349	D86974	Hs.110613	KIAA0220 proteín	2.76	DU145_cells, HT29_cells, Lu_SC_H69
106120	AA423808	Hs.8765	RNA helicase-related protein	2.76	OVCAR_cells, EB_cells, 293T_cells
	HG2755-H		T-Plastin	2.75	293T_cells, PC3_cells, HS578T_cells
	U60521	Hs.100641	caspase 9; apoptosis-related cystelne pr	2.75	Lu_AD_358, Lu_SC_H69, Lu_SC_H345
	R44789		ESTs; Weakly similar to rostral cerebell	2.75	Lu_SC_H69, Lu_SC_H345, BT474_cells
	Z43709			2.75	Caco2, A549_cells, HT29_cells
	AA480074	He 30A	adrenomedullin	2.75	EB cells, OVCAR_cells, DU145_cells
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.75	OVCAR_cells, LNCaP_cells, DU145_cells
	W42429	Hs.150607		2.74	293T cells, DU145 cells, PC3 cells
			KIAA0193 gene product	2.74	CALU6_cells, DU145_cells, Caco2
	D83777		HERV-H LTR-associating 2	2.74	PC3_cells, Lu_SQ_H520, RPWE_2
				2.74	EB_cells, MCF7, DU145_cells
	AA011243		poly(rC)-binding protein 2	2.74	Lu AD 358, Lu AD 358, PRSC_log
	AA677978			2.74	Lu_SC_H345, Lu_LC_H460, HT29_cells
	AA025305		ESTs; Weakly similar to reverse transcri		EB_cells, LNCaP_cells, BT474_cells
	Z38266		H saplens PAC clone DJ0777O23 from 7p14-		
	AA463902	MS.94964	ESTs	2.73	Lu_SC_H69, PRSC_con, Lu_AD_H23
	M61982		ESTs	2.73	LNCaP_cells, DU145_cells, A549_cells
	AA496257		ESTs; Wealty similar to R26984_1 [H.sapi	2.73	EB_cells, DU145_cells, OVCAR_cells
			chromosome 1 open reading frame 9	2.72	PC3_cells, EB_cells, Caco2
	N91273	Hs.27179		2.72	EB_cells, LNCaP_cells, 293T_cells
106680	AA461458	Hs.24789	ESTs	2.72	PC3_cells, Lu_SC_H345, Caco2
118598	N69136	Hs.214343	ESTs	2.72	MB-MDA-453, 293T_cells, BT474_cells
107913	AA027161	Hs.59523	ESTs; Highly similar to G1 TO S PHASE TR	2.71	EB_cells, MCF7, Lu_SC_H345
134315	AA136269	Hs.81648	ESTs; Weakly similar to S164 [H.sapiens]	2.71	EB_cells, DU145_cells, HMEC
135233	AA127463	Hs.9683	protein-kinase; interferon-inducible dou	2.71	EB_cells, OVCAR_cells, Caco2
112932	T15470	Hs.189810	ESTs	2.7	293T_cells, Lu_AD_H23, PC3_cells
	R11501		yf28f1.s1 Soares fetal liver spleen 1NFL		
			contains Alu repetitive element;, mRNA	2.7	Lu_SC_H345, Lu_SC_H69, DU145_cells
131206	AA044078	Hs.24210	ESTs	2.7	Caco2, Lu_SC_H345, HS578T_ceils
126759	AA063642		ESTs; Highly similar to (defline not ava	2.7	LNCaP_cells, Lu_SC_H345, Lu_SC_H69
	AA160890	Hs.22564	myosin VI	2.7	LNCaP_cells, MCF7, HT29_cells
	N69101		ESTs	2.7	EB_cells, 293T_cells, OVCAR_cells
	AA348446		ESTs	2.7	Fibroblasts 2, CALU6_cells, RPWE_2
	W45311	Hs.14756	ESTs	2.7	EB_cells, PC3_cells, DU145_cells
	T90092	Hs.6853	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.69	Lu_SC_H345, OVCAR_cells, DU145_cells
	AA305536			2.69	EB cells, DU145 cells, Caco2
	W69474	Hs.225550		2.69	Lu_SC_H345, Lu_AD_H23, Lu_AD_H23
	AA075144	110.220000	zm86f6.s1 Stratagene ovarian cancer (#93	2.00	20_003.0.101 203.003.001 003.002.00
100354	197010199		gb:X1664 TRANSLATIONALLY CONTROLLI	ED TIIM	2.69 HMEC, HMEC (total RNA), Fibroblasts 2
424450	X59405	Hs.83532	membrane cofactor protein (CD46; trophob	2.69	EB_cells, LNCaP_cells, DU145_cells
					PC3_cells, HMEC (total RNA), OVCAR_cells
111720	R23739	Hs.23585	KIAA1078 protein	2.68	DU145_ceils, LNCaP_ceils, OVCAR_ceils
	AA084148	MS.110659		2.68	HT29_cells, Lu_SC_H345, MB231_cells
	AA731764		ESTs; Weakly similar to IIII ALU CLASS C	2.68	
	M20681	Hs.7594	solute carrier family 2 (facilitated glu	2.68	Caco2, Lu_LC_H460, Fibroblasts 2
	AA477223		brain protein 13	2.68	EB_cells, Lu_AD_H23, Lu_SC_H345
	AA399574		ESTs	2.68	PC3_cells, MCF7, MB231_cells
125191	W67257		ESTs; Weakly similar to !!!! ALU CLASS B	2.68	OVCAR_cells, DU145_cells, LNCaP_cells
116238	AA479362	Hs.47144	DKFZP586N0819 protein	2.67	OVCAR_cells, DU145_cells, LNCaP_cells
124770	R40555	Hs.120429	ESTs	2.67	Lu_AD_H23, Lu_SC_H69, PRSC_con
101764	M80563	Hs.81256	S100 calcium-binding protein A4 (calcium		
			murine placental homolog)	2.67	A549_cells, MB231_cells, OVCAR_cells
	AA063428	Hs.21022	adaptor-related protein complex 3; beta	2.67	EB_cells, Lu_AD_H23, HMEC
	H61046	Hs.237352		2.66	Lu_SC_H345, Lu_SC_H69, PRSC_con
	R12405		H sapiens mRNA; cDNA DKFZp586!1420 (fro		2.66 Lu_SC_H345, BT474_cells, OVCAR_cells
123697	AA609601			2.68	OVCAR_cells, 293T_cells, Lu_SC_H69
111548	R09170	Hs.258707		2.66	293T cells, CALU6_cells, A549_cells
	AA598679			2.66	LIJ SC_H345, OVCAR_cells, LU_AD_H23
	AA278399			2.65	MCF7, HT29_cells, BT474_cells
.00000			- · -		• -

132687	AR002301	He 5/1985	KIAA0303 protein	2.65	HMEC (total RNA), HMEC, LNCaP_cells
		Hs.42457			Lu_SC_H345, Lu_SC_H69, DU145_cells
		Hs.144953			EB_cells, Fibroblasts 2, DU145_cells
			ESTs; Weakly similar to Wiskott-Aldrich		Lu_SC_H69, 293T_cells, EB_cells
		Hs.102201		2.64	DU145_cells, OVCAR_cells, Lu_SC_H345
		Hs.165694		2.64	EB_cells, Lu_SC_H69, Lu_SC_H345
		Hs.112603		2.64	EB_cells, Lu_AD_H23, Fibroblasts 2
	AB002336		erythrocyte membrane protein band 4.1-li	2.64	EB_cells, DU145_cells, Caco2
	X75593		RAB13; member RAS oncogene family	2.64	Fibroblasts 2, PRSC_con, HS578T_cells
		Hs.152618		2.63	EB_cells, Lu_AD_H23, Lu_LC_H460
		Hs.24371		2.63	Caco2, EB_cells, CALU6_cells
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.63	EB_cells, DU145_cells, Caco2
	W19983		SFRS protein kinase 1	2.63	EB_cells, Lu_AD_H23, Lu_SC_H69
	H68018	118.73701	yr76h05.r1 Soares fetal liver spleen 1NF	2.00	LB_0613, E0_70_123, E0_00_100
132300	1100010		IMAGE:211257 5', mRNA seq.	2.62	EB_cells, Lu_AD_H23, Lu_SC_H69
127026	A1270449	He 402050	ESTs; Weakly similar to IIII ALU CLASS A	2.62	DU145_œils, OVCAR_œils, LNCaP_œils
		Hs.42532		2.61	DU145_cells, PRSC_con, Fibroblasts 2
			KIAA0438 gene product	2.6	LNCaP_cells, DU145_cells, HS578T_cells
			KIAA0792 gene product	2.59	EB_ceils, MB-MDA-453, Caco2
				2.59	LNCaP_cells, EB_cells, MB-MDA-453
		Ho 494944	phosphorylase kinase; gamma 2 (testis) ESTs; Moderately similar to transformati	2.59	DU145_cells, Caco2, OVCAR_cells
				2.59	HT29_cells, MB231_cells, Lu_SQ_H520
		Hs.23578		2.59	A549_cells, EB_cells, HS578T_cells
			small membrane protein 1	2.58	DU145_cells, Lu_SC_H345, EB_cells
			TIA1 cytotoxic granule-associated RNA-bi	2.58	Lu_SC_H345, DU145_cells, LNCaP_cells
			DKFZP434N161 protein	2.58	DU145_cells, PC3_cells, A549_cells
		MS.172400	iduronate 2-sulfatase (Hunter syndrome)		DU145_cells, PC5_cells, A545_cells DU145_cells, OVCAR_cells, LNCaP_cells
	H80181	Un 40000	ESTS	2.58 2.58	
		Hs.18063			HMEC, DU145_ceils, DU145_ceils
			ESTs; Weakly similar to The KIAA0138 gen	2.58	DU145_cells, LNCaP_cells, MCF7
	N24020	Hs.132913		2.58	HS578T_cells, DU145_cells, LNCaP_cells
		Hs.29692		2.57	PRSC_con, PRSC_log, HS578T_cells
			ESTs; Moderately similar to IIII ALU SUB	2.57	Lu_SC_H345, Lu_SC_H69, BT474_cells
	N24848		ESTs; Weakly similar to T15B7.2 [C.elega	2.57	HS578T_cells, PRSC_con, EB_cells
		HS.188740	ESTs; Weakly similar to IIII ALU SUBFAMI	2.57	Lu_SC_H69, Caco2, PRSC_con
125324	R07785		yf15c06.r1 Soares fetal liver spieen 1NF	٥.53	CD Re L. AD 1102 Etherbleite 2
			contains Alu repetitive element; contain	2.57	EB_cells, Lu_AD_H23, Fibroblasts 2
	T33462		ESTS	2.57	Lu_SC_H345, 293T_cells, Lu_SC_H69
	D38521		KIAA0077 protein	2.57	EB_cells, LNCaP_cells, PC3_cells
	T40902		ATP-binding cassette; sub-family C (CFTR	2.57	A549_cells, DU145_cells, EB_cells
			Fas-activated serine/threonine kinase	2.56	EB_cells, Lu_AD_H23, Lu_AD_358
	H73161	Hs.92991	ESTs; Weakly similar to C13F10.4 [C.eleg	2.56	EB_cells, LNCaP_cells, MB-MDA-453
	D58185	Hs.21945		2.56	Lu_SC_H345, Lu_SC_H69, HMEC (total RNA)
	H62441		H sapiens PAC clone DJ0988G15 from 7q33-		HMEC (total RNA), HMEC, RPWE_2
		Hs.177407	ESTs: Weakly similar to !!!! ALU SUBFAMI	2.56	Lu_SC_H345, Lu_SC_H69, DU145_cells
	N42090		yy05b07.r1 Soares metanocyte 2NbHM H sap		HMEC, HMEC (total RNA), PC3_cells
	T79021	Hs.14438	ESTs; Moderately similar to histamine N-	2.56	HT29_cells, PRSC_log, Lu_SC_H345
	AA347485		ESTs; Moderately similar to rig-1 protei	2.56	Lu_AD_H23, RPWE_2, Lu_SQ_H520
	N46423	Hs.24283	ESTs	2.56	EB_cells, CALU6_cells, DU145_cells
	H98153	Hs.42500	ADP-ribosylation factor-like 5	2.56	OVCAR_cells, EB_cells, LNCaP_cells
			CD2-associated protein	2.55	LNCaP_cells, EB_cells, DU145_cells
	AA292328	Hs.9754	activating transcription factor 5	2.55	MCF7, EB_cells, MB-MDA-453
132079	H67964	Hs.38694	ESTs	2.55	EB_cells, DU145_cells, HS578T_cells
131813	X51757	Hs.3268	heat shock 70kD protein 6 (HSP70B')	2.55	Lu_AD_H23, MB231_cells, Fibroblasts 2
	L14837	Hs.74614	tight junction protein 1 (zona occludens	2.54	DU145_cells, Caco2, A549_cells
	T40849		maternal G10 transcript	2.54	EB_cells, Caco2, LNCaP_cells
	AA431306	Hs.98722	ESTs	2.54	Fibroblasts 2, BT474_cells, HMEC (total RNA)
	AA448332		transcription elongation factor A (SII);	2.54	Lu_SC_H345, MCF7, MB-MDA-453
119315	T41152	Hs.90485	ESTs	2.54	Lu_SC_H345, MB-MDA-435s, PRSC_con
	AA031948		ESTs	2.54	A549_cells, RPWE_2, DU145_cells
122457	AA447780	Hs.96418	ESTs	2.54	DU145_cells, EB_cells, A549_cells
	Z25749	Hs.75538	ribosomal protein S7	2.54	EB_cells, CALU6_cells, DU145_cells
	N29963	Hs.193977	ESTs	2.54	HMEC (total RNA), HMEC, RPWE_2
116024	AA451748	Hs.83883	Human DNA seq from done 718J7 on chromo)	
			phosphoenolpyruvate carboxykinase 1; ES	2.53	LNCaP_cells, RPWE_2, MB-MDA-453
134361	D43682	Hs.82208	acyl-Coenzyme A dehydrogenase; very long	2.53	LNCaP_cells, CALU6_cells, DU145_cells
	U60975		Human hybrid receptor gp25 precursor mRN		EB_ceils, HMEC (total RNA), Caco2
	D63478	Hs.8127	KIAA0144 gene product	2.53	BT474_cells, HT29_cells, Lu_AD_358
105519	AA258063	Hs.23438		2.53	EB_cells, Caco2, MB-MDA-435s
	R02401	Hs.221078	ESTs	2.53	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
105852	AA398933		solute carrier family 12 (potassium/chlo	2.52	LNCaP_cells, DU145_cells, EB_cells
105012	AA116036	Hs.9329	chromosome 20 open reading frame 1	2.52	CALU6_cells, Cacco2, DU145_cells
	W39128		Human DNA seg from done 8B1 on chromoso	0	
			-CELL MEMBRANE GLYCOPROTEIN PC-1;	the ge	2.52 BT474_cells, LNCeP_cells, Lu_AD_H23
135334	AA053134	Hs.241558	ariadne-2 (D. melanogaster) homolog (all	2.52	293T_cells, CALU6_cells, DU145_cells
128538	R44214	Hs.101189	ESTs	2.52	EB_cells, Lu_AD_H23, Lu_SC_H345
	H02566		H saptens mRNA; cDNA DKFZp434N174 (fro		2.52 DU145_cells, LNCaP_cells, OVCAR_cells
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118570	N68905		small inducible cytokine A5 (RANTES)	2.51	Lu_SC_H345, LNCaP_cells, Lu_SC_H69
	N34904		ESTs; Moderately similar to !!!! ALU SUB	2.51	Lu_SC_H345, DU145_cells, Lu_SC_H69
	F15201			2.51	Lu_SC_H345, PRSC_con, PRSC_log
		11- 00444	ESTS		Cacc2, Lu_SC_H69, 293T_cells
		Hs.99141		2.51	ED cells DillAs cells CALLIS cells
109339	AA211901	Hs.86430	ESIS	2.51	EB_cells, DU145_cells, CALU6_cells
		Hs.105274		2.51	EB_cells, Lu_AD_H23, Lu_SC_H69
118467	N66763	Hs.43080	ESTs	2.51	CALU6_cells, HS578T_cells, OVCAR_cells
106044	AA416546	Hs.149436	kinesin family member 5B	2,51	EB_cells, Caco2, DU145_cells
107480	W58057	Hs.74304	periplakin	2.5	Caco2, OVCAR_cells, HMEC (total RNA)
	R26892	Hs.221434		2.5	Lu_AD_H23, EB_cells, Lu_AD_358
	N68018		TBP-associated factor 172	2.5	LNCaP_cells, EB_cells, DU145_cells
	X97249		FSH primary response (LRPR1; rat) homolo	2.5	HS578T_cells, Lu_SC_H345, PC3_cells
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.49	OVCAR_cells, Lu_SC_H345, DU145_cells
			· · · · · · · · · · · · · · · · · · ·		MB-MDA-453, 293T_cells, CALU6_cells
	D90276	Hs.12	carcinoembryonic antigen-related cell ad	2.49	EB cells, Lu_AD_H23, Lu_SC_H345
	R42547	Hs.172551		2.49	
	Z41027	Hs.26297		2.49	Lu_SC_H69, OVCAR_cells, Lu_AD_H23
		Hs.28752		2.49	EB_cells, CALU6_cells, DU145_cells
135354	AA188934	Hs.99367	ESTs	2.49	MB-MDA-453, Lu_SC_H69, 293T_cells
	X78262		H.sapiens mRNA for TRE5	2.49	Lu_SC_H345, Lu_SC_H69, PRSC_con
108373	AA074393	Hs.61950	ESTs; Weakly similar to nuclear protein	2.49	MCF7, MB-MDA-453, Lu_SC_H345
			ESTs; Weakly similar to ubiquitous TPR m	2.48	DU145_cells, Lu_SC_H345, Lu_SC_H345
	H45516	Hs.33268		2.48	PC3_cells, OVCAR_cells, Lu_SQ_H520
	M22348		ubiquinol-cytochrome c reductase blnding	2.48	LNCaP_cells, CALU6_cells, PC3_cells
	H12661	Hs.8107	H sapiens mRNA; cDNA DKFZp586B0918 (fr		2.48 HMEC (total RNA), HS578T_cells, HMEC
	M93425	Hs.62	protein tyrosine phosphatase; non-recept	2.48	DU145_cells, EB_cells, CALU6_cells
	M33318		cytochrome P450; subfamily IIA (phenobar	2.48	EB_cells, Lu_AD_H23, Lu_AD_358
					HT29_cells, Lu_SQ_H520, BT474_cells
	Z14000	Hs.35384	ring finger protein 1	2.47	
	N76763		ESTs	2.47	EB_cells, Lu_AD_H23, Lu_AD_358
	H05625	Hs.92414	ESTs	2.47	Lu_SC_H345, CALU6_cells, Lu_SC_H69
116295	AA489016	Hs.91216	ESTs; Highly similar to partial CDS; hum	2.47	MB-MDA-453, 293T_cells, MB-MDA-435s
107004	AA598675	Hs.239475		2.47	LNCaP_cells, Cacc2, OVCAR_cells
132137	AA282312	Hs.4076	CTD (carboxy-terminal domain; RNA polyme	2.46	Lu_SC_H69, HMEC, EB_cells
126390	W28286	Hs.100090	tetraspan 3	2.46	EB_cells, DU145_cells, LNCaP_cells
113050	T26366	Hs.22711	EST; Weakly similar to 60S RIBOSOMAL PRO	0	2.46 Lu_LC_H460, EB_cells, Lu_AD_358
	M60858	Hs.79110	nucleolin	2.46	PC3_cells, 293T_cells, A549_cells
	AA085398		zn7e3.s1 Stratagene hNT neuron (#937233)		, = =
100000	10100000		IMAGE:546748 3', mRNA seq	2.45	HT29_cells, BT474_cells, Lu_SQ_H520
147100	Linenge	Un 42612		2.45	EB_cells, Lu_AD_H23, Lu_AD_358
	H98988	Hs.42612			2.45 EB_cells, Lu_AD_H23, Lu_AD_H23
			Human Chromosome 16 BAC clone CIT987S		_ /
	T23625	Hs.258674		2.45	Lu_AD_H23, EB_cells, Lu_SC_H69
	N31726		ESTs; Highly similar to myelin gene expr	2.45	Lu_SC_H69, DU145_cells, OVCAR_cells
	AA243478		ESTs	2.45	EB_cells, 293T_cells, PC3_cells
128941	R55763	Hs.107287	ESTs .	2.44	EB_cells, LNCaP_cells, A549_cells
116486	C14128	Hs.251980	EST	2.44	MB-MDA-435s, HS578T_cells, 293T_cells
134869	T35288	Hs.90421	ESTs; Moderately similar to IIII ALU SUB	2.44	EB_cells, Lu_AD_H23, Lu_AD_358
130664	R09049	Hs.17625	ESTs	2.44	PC3_cells, EB_cells, A549_cells
	AA035638		H sapiens mRNA; cDNA DKFZp564F053 (fro		2.44 PRSC_con, PRSC_log, Caco2
	H37820	Hs.124147		2.44	MB-MDA-453, Caco2, OVCAR_cells
	T87174		ESTs; Moderately similar to IIII ALU SUB	2.44	Caco2, OVCAR_cells, LNCaP_cells
	U28749	Hs.2726	high-mobility group (nonhistone chromoso	2.44	CALU6_cells, OVCAR_cells, 293T_cells
				2.44	Lu_AD_H23, Lu_SQ_H520, PRSC_con
		Hs.194031		2.77	EU_AD_120, Eu_04C1020, 1.100_00
133/33	AA4109/3	MS./3/80	Human DNA seq from clone 1183i21 on chro	0.40	EB_cells, Caco2, DU145_cells
			to predicted fly and worm proteins. Con	2.43	ED_CSIS, CAUZ, DU 145_CSIS
	W88579	Hs.124744		2.43	HT29_cells, HMEC (total RNA), HMEC
	W60186		Kreisler (mouse) maf-related leucine zip	2.43	LNCaP_cells, HS578T_cells, MB-WDA-453
132295	H66351		Dmx-like 1	2.43	Lu_SC_H69, BT474_cells, Lu_SQ_H520
133395	AA491296	Hs.72805	ESTs ·	2.43	EB_cells, LNCaP_cells, OVCAR_cells
106728	AA465355	Hs.153768	U3 snoRNP-associated 55-kDa protein	2.43	EB_cells, Lu_AD_H23, PC3_cells
116370	AA521256	Hs.236204	ESTs; Moderately similar to NUCLEAR PORE	2.43	EB_ceils, A549_ceils, 293T_ceils
	W81552		nuclear receptor subfamily 1; group I; m	2.43	293T_cells, OVCAR_cells, Fibroblasts 2
	R61297		eukaryotic translation initiation factor	2.43	EB_cells, DU145_cells, DU145_cells
	R12581	Hs.191146		2.43	HMEC (total RNA), Fibroblasts 2, MB-MDA-435s
	R42241	Hs.106359		2.43	A549 cells, DU145_cells, CALU6_cells
111333	N42241		ESTs; Weakly similar to PROTEIN-TYROSIN		2.43 EB_cells, LNCaP_cells, Caco2
					EB_cells, Caco2, A549_cells
130983	N71215		NCK-associated protein 1	2.42	ED_CEIS, CACCE, AD-10_CCIS
131654	AA49/050	Hs.30204	E018	2.42	MCF7, MB-MDA-435s, Lu_SC_H345
105014	AA121123	Hs.191374	E018	2.42	EB_cells, Lu_AD_H23, Lu_LC_H460
		Hs.19114		2.42	EB_cells, Lu_SC_H345, A549_cells
102386	U40998	Hs.81728	unc119 (C.elegans) homolog	2.42	OVCAR_cells, EB_cells, DU145_cells
112517	R68589	Hs.23721	ESTs	2.42	Caco2, MCF7, DU145_cells
125375	H72971		KIAA0277 gene product	2.42	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
123808	AA620552	Hs.25682	ESTs; Weakly similar to PHOSPHATIDYLET		2.42 EB_cells, Lu_AD_H23, Lu_SC_H69
114950	AA243503	Hs.11801	adenosine A2b receptor pseudogene	2.42	MB-MDA-453, HT29_cells, Lu_LC_H460
	H39216	Hs 239970	ESTs; Weakly similar to ZNF91L [H.saplen	2.41	Lu_SC_H345, Fibroblasts 2, DU145_cells
103409	X95876		G protein-coupled receptor 9	2.41	RPWE_2, PRSC_log, Lu_SC_H345
100702	A A A D 4 2 A 2	Hs.179999	FSTe		EB_cells, 293T_cells, DU145_cells
129/103	WW101940	110.110000	2010	2.41	FRTOOM! Too. Too. o. t. t. Trime

105693 AA287104	Hs.181368	U5 snRNP-specific protein (220 kD); orth	2.41	293T_ceils, CALU6_ceils, A549_ceils
106532 AA453628			2.41	EB_cells, OVCAR_cells, Caco2
132132 AA010933		core promoter element binding protein	2.41	HMEC, HMEC (total RNA), EB_cells
		·		
111409 R00311	Hs.18798	EST; Weakly similar to !!!! ALU SUBFAMIL	2.41	Lu_SC_H345, Lu_SC_H69, PRSC_con
133813 M26657		dipeptidyl carboxypeptidase 1 (anglotens	2,41	HT29_cells, BT474_cells, MB231_cells
127240 AA888387	Hs.243845	ESTs; Moderately similar to IIII ALU SUB	2.41	Lu_SC_H345, DU145_celis, LNCaP_celis
104975 AA086071	Hs.50758	chromosome-associated polypeptide C	2.41	OVCAR_cells, DU145_cells, PC3_cells
118078 N54321	Hs.47790	EST	2.41	EB_cells, Fibroblasts 2, HMEC (total RNA)
115840 AA429253	Hs 58103	A kinase (PRKA) anchor protein 9	2.41	OVCAR_cells, EB_cells, PC3_cells
101186 L20298			2.4	EB_cells, DU145_cells, CALU6_cells
		core-binding factor, beta subunit		
113098 T40936	Hs.8349	ESTs	2.4	Caco2, HT29_cells, EB_cells
115185 AA259140	Hs.60238	ESTs ·	2.4	Lu_SC_H69, EB_cells, Cacc2
113778 W15263	Hs.5422	ESTs	2.4	Caco2, MB-MDA-435s, LNCaP_cells
128261 AI061213	Hs.13179	ESTs; Moderately similar to IIII ALU SUB	2.4	DU145_cells, LNCaP_cells, OVCAR_cells
132210 AA235013		A kinase (PRKA) anchor protein 2	2.4	Caco2, DU145_cells, PRSC_log
112561 R72427				2.4 Lu_SQ_H520, Lu_AD_H23, EB_cells
		ESTs; Weakly similar to CYTOCHROME P45		
127598 AA610677			2.4	LNCaP_cells, DU145_cells, OVCAR_cells
106664 AA460969		mitogen-activated protein kinase kinase	2.4	OVCAR_cells, 293T_cells, A549_cells
131367 AA456687	Hs.26057	ESTs	2.4	EB_cells, MB-MDA-453, 293T_cells
103163 X67683		H.sapiens mRNA for keratin 4	2.39	EB_cells, Lu_AD_H23, Lu_AD_358
109639 F04444	Hs.6217	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.39	EB_cells, Lu_SC_H345, Lu_SC_H69
112007 R42671		EST; Weakly similar to III! ALU SUBFAMIL	2.39	MB-MDA-435s, Lu_SC_H345, Lu_AD_H23
	113.140000			Caco2, Lu_AD_358, LNCaP_cells
100023	404040	AFFX control: BioC-3	2.39	
119923 W86214	Hs.184642		2.39	EB_cells, HS578T_cells, DU145_cells
127705 AJ003307		AJ003307 Selected chr 21 cDNA library H	2.39	Lu_AD_H23, Lu_SC_H345, Lu_LC_H460
130362 AA182658	Hs.179817	DKFZP586F0222 protein	2.39	EB_cells, DU145_cells, PC3_cells
100168 D14874	Hs.394	adrenomedullin	2.39	Fibroblasts 2, Caco2, HS578T_cells
134261 AA227678		Human DNA seq from done 465N24 on chr 1		
IOTEOT PAREFORD	113.0007		2.39	PRSC_con, MB-MDA-453, LNCaP_cells
400000 V04500		Contains two novel genes; ESTs; GSSs an		
103392 X94563		H.sapiens dbi/acbp gene exon 1 & 2	2.38	EB_cells, Lu_AD_H23, Lu_SC_H69
129888 U81001	Hs.131891	Human SNRPN mRNA; 3' UTR; partial seq	2.38	LNCaP_cells, Lu_SC_H69, Lu_LC_H460
130119 T12649	Hs.251653	tubulin; beta; 2	2.38	Lu_AD_H23, Lu_LC_H460, Lu_LC_H460
118136 N57710	Hs.233952	proteasome (prosome; macropain) subunit;	2.38	293T_cells, OVCAR_cells, HS578T_cells
131163 H80107	Hs.23754		2.38	Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
115964 AA446622			2.38	EB_cells, LNCaP_cells, DU145_cells
135026 H59730	Hs.93231	ESTs	2.37	EB_cells, 293T_cells, Lu_SC_H69
133300 D51401	Hs.70333	ESTs	2.37	OVCAR_cells, Caco2, CALU6_cells
129948 H69281	Hs.13643	ESTs	2.37	EB_cells, Lu_AD_H23, Lu_SC_H345
112505 R67923	Hs.23368	ESTs	2.37	DU145_cells, OVCAR_cells, 293T_cells
130715 T98227	Hs.171952	accludin	2.37	Caco2, LNCaP_cells, DU145_cells
120301 AA192163			2.37	Lu_AD_H23, EB_cells, PRSC_con
128062 AA379500			2.37	EB_cells, LNCaP_cells, DU145_cells
		ESTs; Weakly similar to !!!! ALU SUBFAMI	2.37	HS578T_cells, MCF7, Lu_SC_H69
102814 U90716	Hs.79187	coxsackie virus and adenovirus receptor	2.37	OVCAR_cells, DU145_cells, Lu_SC_H345
120239 Z41691	Hs.65919	ESTs	2.37	EB_cells, DU145_cells, LNC&P_cells
106829 AA481883	Hs.31236	ESTs; Weakly similar to Unknown [H.sapie	2.37	EB_cells, DU145_cells, OVCAR_cells
132681 AA435762	Hs.54894	ESTs; Highly similar to unknown [H.sapie	2.37	EB_cells, LNCaP_cells, PRSC_con
108845 AA132946		ESTs		
100070 701102070	He 68864			Lu AD H23, Lu AD 358, Lu SQ H520
122228 TRE227			2.36	Lu_AD_H23, Lu_AD_358, Lu_SQ_H520
133226 T85327	Hs.169552	ESTs	2.36	Caco2, MB-MDA-453, MCF7
106789 AA478726	Hs.169552 Hs.26373	ESTs ESTs; Moderately similar to IIII ALU SUB	2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells
106789 AA478726 119236 T10166	Hs.169552 Hs.26373 Hs.237297	ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs	2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells
106789 AA478726	Hs.169552 Hs.26373 Hs.237297	ESTs ESTs; Moderately similar to IIII ALU SUB	2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2
106789 AA478726 119236 T10166	Hs.169552 Hs.26373 Hs.237297 Hs.23956	ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs	2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741	ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTS	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_ceils, OVCAR_ceils, HS578T_ceils
108789 AA478726 119236 T10166 108619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453
108789 AA478726 119236 T10166 108619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 108155 AA425309 114632 AA084742	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTS ESTS	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_H23
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTS ESTS	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, MS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s
106789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs SSTs nuclear factor I/B ESTs; Weakly similar to IIII ALU SUBFAMI much 1; transmembrane solute carrier family 20 (phosphate tran	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_H23
105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.171825	ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_ceils, OVCAR_ceils, HS578T_ceils OVCAR_ceils, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_ceils, Lu_AD_H23, Lu_AD_358 PC3_ceils, CALU6_ceils, MB-MDA-435s A549_ceils, DU145_ceils, MB-MDA-435s
105789 AA478726 119236 T10166 106619 AA459255 109178 AA18600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.89603 Hs.89603 Hs.89603 Hs.89603	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_ceils, OVCAR_ceils, HS578T_ceils OVCAR_ceils, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_ceils, Lu_AD_H23, Lu_AD_358 PC3_ceils, CALU6_ceils, MB-MDA-435s A549_ceils, DU145_ceils, MB-MDA-435s LNCaP_ceils, PC3_ceils, DU145_ceils
105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04426	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.174825 Hs.6236 Hs.23131	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_ceils, OVCAR_ceils, HS578T_ceils OVCAR_ceils, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_ceils, Lu_AD_H23, Lu_AD_358 PC3_ceils, CALU6_ceils, MB-MDA-435s A549_ceils, DU145_ceils, MT29_ceils LNCaP_ceils, PC3_ceils, DU145_ceils MB-MDA-435s, A549_ceils, Lu_LC_H460
105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 105389 AA446949 109637 F04426 101483 M24486	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, Lu_LC_H460 PC3_cells, HS578T_cells, EB_cells
105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 105387 F04428 101483 M24486 131751 H18335	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.933287 Hs.194380 Hs.89603 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.31562	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs est inuclear factor I/B ESTs; Weakly similar to IIII ALU SUBFAMI much 1; transmembrane solute carrier family 20 (phosphate tran basic helix-loop-helix domain containing ESTs kinesin family member C3 procollagen-proline; 2-oxoglutarate 4-di ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.36	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, DU145_cells DU145_cells, MB231_cells, HMEC
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105789 AA478726 119236 T10166 106619 AA459255 109178 AA188160 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04426 101483 M24486 131751 H18335 131050 X13967 130097 N21159	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.23150 Hs.2500 Hs.14845	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, DU145_cells DU145_cells, MB231_cells, HMEC
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105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04426 101483 M24486 131751 H18335 131050 X13367 130097 N21159 134533 AA013468	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.23152 Hs.2250 Hs.14845 Hs.241493	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_ceils, OVCAR_ceils, HS578T_ceils OVCAR_ceils, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_ceils, Lu_AD_H23, Lu_AD_358 PC3_ceils, CALU6_ceils, MB-MDA-435s A549_ceils, DU145_ceils, MB-MDA-435s LNCaP_ceils, PC3_ceils, DU145_ceils MB-MDA-435s, A549_ceils, Lu_LC_H460 PC3_ceils, HS578T_ceils, EB_ceils DU145_ceils, MB231_ceils, HMEC Lu_AD_H23, PC3_ceils, HMEC Lu_AD_H23, PC3_ceils, Lu_LC_J460 PC3_ceils, SS78T_ceils, BB_ceils DU145_ceils, MB231_ceils, HMEC Lu_AD_H23, PC3_ceils, PRSC_log EB_ceils, LNCaP_ceils, LNCaP_ceils EB_ceils, HT29_ceils, LNCaP_ceils EB_ceils, HT29_ceils, HMEC
108789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 F91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 105389 AA446949 109637 F04428 101483 M24486 131751 H18335 131050 X13967 130057 N201579 134533 AA013468 134839 D63479	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.2150 Hs.14845 Hs.24493 Hs.14845 Hs.14845 Hs.14845 Hs.145907	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_ceils EB_ceils, 293T_ceils, LNCaP_ceils LNCaP_ceils, A549_ceils, Caco2 Lu_SC_H345, LNCaP_ceils, EB_ceils Caco2, EB_ceils, DU145_ceils Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_ceils, OVCAR_ceils, HS578T_ceils OVCAR_ceils, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_ceils, Lu_AD_H23, Lu_AD_358 PC3_ceils, CALU6_ceils, MB-MDA-435s A549_ceils, DU145_ceils, MB-MDA-435s LNCaP_ceils, PC3_ceils, DU145_ceils MB-MDA-435s, A549_ceils, Lu_LC_H460 PC3_ceils, HS578T_ceils, EB_ceils DU145_ceils, MB231_ceils, HMEC Lu_AD_H23, PC3_ceils, PRSC_log EB_ceils, LNCaP_ceils, LNCaP_ceils EB_ceils, HT29_ceils EB_ceils, HT29_ceils EB_ceils, HT29_ceils Lu_LC_H460, Caco2, DU145_ceils
108789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04426 101483 M24486 131751 H18335 131050 X13967 130097 X13967 130097 N21159 134533 AA013468 134839 D63479 115690 AA410894	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.93287 Hs.194380 Hs.89603 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.241493 Hs.241493 Hs.115907 Hs.44159	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs est s nuclear factor I/B ESTs; Weakly similar to IIII ALU SUBFAMI much 1; transmembrane solute carrier family 20 (phosphate tran basic helix-loop-helix domain containing ESTs kinesin family member C3 procollagen-proline; 2-oxoglutarate 4-di ESTs leukemla Inhibitory factor (cholinergic forkhead box C3A natural killer-tumor recognition seq diacytglycerol kinase; delta (130kD) ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR_cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells DU145_cells, MB-MDA-435s A549_cells, DU145_cells DU145_cells, MB-MDA-435s A549_cells, Lu_LC_H460 PC3_cells, MS578T_cells, EB_cells DU145_cells, MB231_cells, HMEC Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells EB_cells, LNCaP_cells, HMEC Lu_LC_H460, Caco2, DU145_cells PC3_cells, EB_cells, OVCAR_cells
105789 AA478726 119236 T10166 105619 AA459255 109178 AA4816100 112724 R91753 112655 R85069 132820 AA454988 105155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 105389 AA446949 109637 F04426 101433 M24486 101433 M24486 101433 A3451 131050 X13967 130097 N21159 134533 AA013468 134839 D63479 11559079 N91011	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.98603 Hs.78452 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.31562 Hs.241493 Hs.115907 Hs.14845 Hs.241493 Hs.115907	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs eSTs eSTs nuclear factor I/B ESTs; Weakly similar to IIII ALU SUBFAMI much 1; transmembrane solute carrier family 20 (phosphate tran basic hetix-loop-hetix domain containing ESTs kinesin family member C3 procollagen-proline; 2-oxoglutarate 4-di ESTs teukemia inhibitory factor (cholinergic forthead box C3A natural killer-turnor recognition seq diacytglycerol kinase; delta (130kD) ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, MS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_J358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, Lu_LC_H460 PC3_cells, MS578T_cells, EB_cells DU145_cells, MB231_cells, Lu_LC_H460 PC3_cells, MS578T_cells, EB_cells DU145_cells, MB221_cells, HMEC Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells EB_cells, HT29_cells, LNCaP_cells
105789 AA478726 119236 T10166 106619 AA459255 109178 AA4816100 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04428 101483 M24486 131751 H18335 131050 X13967 130097 N21159 134533 AA013468 134839 D63479 115690 AA410894 129079 N91011 123517 AA608525	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.241493 Hs.115907 Hs.44159 Hs.44159 Hs.44159 Hs.443559	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, Lu_LC_H460 PC3_cells, HS578T_cells, EB_cells DU145_cells, MB231_cells, Lu_LC_H460 PC3_cells, MBC31_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells EB_cells, LNCaP_cells, LNCaP_cells EB_cells, LNCaP_cells, LNCaP_cells EB_cells, HT29_cells, HMEC Lu_AD_H23, PC3_cells, LNCaP_cells EB_cells, LNCaP_cells, LNCaP_cells EB_cells, LT29_cells, HMEC Lu_LC_H460, Caco2, DU145_cells PC3_cells, EB_cells, OVCAR_cells Lu_AD_H23, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, PC3_cells, MB-MDA-435s
105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04428 101483 M24486 131751 H18335 131050 X13967 130097 N21159 134533 AA013468 134839 D63479 115690 AA410894 129079 N9111 123517 AA608525	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.241493 Hs.115907 Hs.44159 Hs.44159 Hs.44159 Hs.443559	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_388 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, Lu_LC_H460 PC3_cells, MB231_cells, LU_C_H460 PC3_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, PMEC Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells Lu_AD_H23, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, PC3_cells, MB-MDA-435s BT474_cells, Lu_LC_H460, Lu_AD_H23
108789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04426 101483 M24486 131751 H18335 131050 X13967 130097 N21159 134533 AA013468 134839 D63479 115690 AA410894 129079 N91011 123517 AA608525 126239 AA527215 124440 N46435	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.171825 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.241493 Hs.115907 Hs.44159 Hs.108502 Hs.243059 Hs.75879	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, Lu_LC_H460 PC3_cells, HS578T_cells, EB_cells DU145_cells, MB231_cells, HMEC Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells EB_cells, HT29_cells, HMEC Lu_LC_H460, Caco2, DU145_cells PC3_cells, BB_cells, OVCAR_cells Lu_SC_H69, Lu_AD_358 Lu_SC_H345, PC3_cells, MB-MDA-435s BT474_cells, Lu_LC_H460, Lu_AD_H23 Lu_SC_H69, HT29_cells, MB-MDA-435s
105789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04428 101483 M24486 131751 H18335 131050 X13967 130097 N21159 134533 AA013468 134839 D63479 115690 AA410894 129079 N9111 123517 AA608525	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.2150 Hs.14845 Hs.2415907 Hs.108502 Hs.14845 Hs.243059 Hs.75879	ESTs (Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu, SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells LNCaP_cells, PC3_cells, DU145_cells DU145_cells, MB231_cells, HMEC Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells EB_cells, LNCaP_cells, LNCaP_cells PC3_cells, PC3_cells, DU145_cells PC3_cells, EB_cells, OVCAR_cells Lu_LC_H460, Caco2, DU145_cells PC3_cells, EB_cells, OVCAR_cells Lu_AD_H23, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, PC3_cells, MB-MDA-435s BT474_cells, LI_LC_H460, Lu_AD_H23 Lu_SC_H69, HT29_cells, MB-MDA-435s Lu_SC_H69, HT29_cells, MB-MDA-435s Lu_SC_H69, HT29_cells, MB-MDA-435s Lu_AD_H23, PRSC_log, Lu_AD_H520
108789 AA478726 119236 T10166 106619 AA459255 109178 AA181600 112724 R91753 112655 R85069 132820 AA454988 106155 AA425309 114632 AA084742 134776 J05582 101192 L20859 130349 W16686 106389 AA446949 109637 F04426 101483 M24486 131751 H18335 131050 X13967 130097 N21159 134533 AA013468 134839 D63479 115690 AA410894 129079 N91011 123517 AA608525 126239 AA527215 124440 N46435	Hs.169552 Hs.26373 Hs.237297 Hs.23956 Hs.62741 Hs.17757 Hs.141139 Hs.57621 Hs.33287 Hs.194380 Hs.89603 Hs.78452 Hs.6236 Hs.23131 Hs.76768 Hs.23131 Hs.76768 Hs.2150 Hs.14845 Hs.2415907 Hs.108502 Hs.14845 Hs.243059 Hs.75879	ESTs ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.36 2.36 2.36 2.36 2.36 2.36 2.36 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35	Caco2, MB-MDA-453, MCF7 MB-MDA-453, Caco2, OVCAR cells EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2 Lu_SC_H345, LNCaP_cells, EB_cells Caco2, EB_cells, DU145_cells Fibroblasts 2, Lu_AD_H23, Lu_LC_H460 EB_cells, OVCAR_cells, HS578T_cells OVCAR_cells, Lu_SC_H345, MB-MDA-453 Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358 PC3_cells, CALU6_cells, MB-MDA-435s A549_cells, DU145_cells, HT29_cells LNCaP_cells, PC3_cells, DU145_cells MB-MDA-435s, A549_cells, Lu_LC_H460 PC3_cells, HS578T_cells, EB_cells DU145_cells, MB231_cells, HMEC Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells EB_cells, HT29_cells, HMEC Lu_LC_H460, Caco2, DU145_cells PC3_cells, BB_cells, OVCAR_cells Lu_SC_H69, Lu_AD_358 Lu_SC_H345, PC3_cells, MB-MDA-435s BT474_cells, Lu_LC_H460, Lu_AD_H23 Lu_SC_H69, HT29_cells, MB-MDA-435s

104857	AA043219	Hs.19058	ESTs	2.34	Lu_AD_H23, Lu_SC_H345, Lu_SC_H345
	F04587	Hs.28241		2.34	HS578T_cells, A549_cells, CALU6_cells
	H97817	Hs.183302		2.34	EB_cells, Fibroblasts 2, Lu_SC_H69
	R58974	Hs.167343		2.34	EB_cells, Lu_SC_H345, HT29_cells
	T95745	Hs.187433		2.34	MB-MDA-435s, MB-MDA-453, Lu_SC_H345
	W56804		AFG3 (ATPase family gene 3; yeast)-like	2.34	OVCAR_cells, Fibroblasts 2, MB-MDA-435s
	M29536	Hs.12163	eukaryotic translation initiation factor	2.34	EB cells, Caco2, DU145_cells
		Hs.122591	ESTS	2.33	293T_cells, PRSC_log, Lu_SC_H345
	AA213555		alpha Integrin binding protein 63	2.33	EB_cells, DU145_cells, LNCaP_cells
		Hs.71074		2.33	Lu AD_H23, Lu_AD_358, Lu_LC_H460
			nuclear pore complex interacting protein	2.33	LNCaP_cells, Lu_SC_H69, DU145_cells
120403	AA234916	Hs.243851	ESTS	2.33	MB231_cells, Lu_SC_H345, Lu_SC_H69
	R02207		ESTs; Weakly similar to microtubule-base	2.33	LNCaP_cells, BT474_cells, MCF7
		Hs.143654	ESTs	2.33	HT29_cells, Lu_AD_H23, RPWE_2
	M86667		nucleosome assembly protein 1-like 1	2.33	EB_cells, A549_cells, DU145_cells
	N63391	Hs.9238	ESTs	2.33	Caco2, EB_cells, MB-MDA-453
			ESTs; Moderately similar to TADA1 protei	2.33	CALU6_cells, 293T_cells, PC3_cells
106546	AA454725	Hs.21056	H sapiens mRNA from chromosome 5q21-22;		OVCAR_cells, Caco2, LNCaP_cells
		Hs.250989		2.33	BT474_cells, Fibroblasts 2, MB-MDA-435s
	D84294		tetratricopeptide repeat domain 3	2.33	Lu_SC_H345, EB_cells, EB_cells
	AA449099		ESTs; Weakly similar to atopy related au	2.33	EB_cells, LNCaP_cells, Caco2
			transcriptional intermediary factor 1	2.33	EB_cells, LNCaP_cells, Caco2
	AA447442		ESTs	2.33	EB_cells, 293T_cells, Lu_SC_H69
	AA351031		solute carrier family 22 (organic anion	2.33	EB_cells, Lu_AD_H23, Lu_SC_H345
	W04550	Hs.9927	H sapiens mRNA; cDNA DKFZp564D156 (fro		2.32 OVCAR_cells, EB_cells, Lu_SC_H69
	H68772		ESTs; Weakly similar to b34l8.1 [H.sapie	2.32	Lu_SC_H345, Lu_AD_H23, PRSC_con
	U26312	Hs.8123	chromobox homolog 3 (Drosophila HP1 gamn		CALU6_cells, LNCaP_cells, A549_cells
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.32	HT29_cells, Fibroblasts 2, Lu_SC_H345
	R20148	Hs.193851		2.32	HT29_cells, HMEC (total RNA), MB231_cells
		Hs.19813		2.32	MB-MDA-435s, Lu_SC_H69, PRSC_log
	AA599143	110.10010	ESTs; Moderately similar to !!!! ALU SUB	2.32	LNCaP_cells, DU145_cells, Lu_SC_H345
134310	AA313414	He 8148	H sapiens clone 24856 mRNA seg; complete		PC3_cells, LNCaP_cells, OVCAR_cells
	R85375	Hs.237262		2.32	Lu_SC_H69, PRSC_log, PRSC_con
		Hs.133100		2.32	PC3_cells, 293T_cells, 293T_cells
	R49144	Hs.119756		2.32	PRSC_log, 293T_cells, 293T_cells
	F09792	Hs.12929		2.32	Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
116726			ESTs	2.32	MCF7, BT474_cells, MB-MDA-453
	R32993	Hs.6762	ESTs; Weakly similar to similar to leucy	2.31	DU145_cells, 293T_cells, EB_cells
		Hs.199955		2.31	Lu_SC_H345, LNCaP_cells, DU145_cells
	N68836	Hs.19247		2.31	OVCAR_cells, LNCaP_cells, 293T_cells
	H29565	Hs.12271	ESTs	2.31	BT474_ceils, MB231_ceils, MB-MDA-453
	AA092473		chromobox homolog 3 (Drosophila HP1 gamm		CALU6_cells, MCF7, DU145_cells
			ESTs; Weakly similar to atypical PKC spe	2.31	HT29_cells, BT474_cells, HMEC
120886	AA365566	He 132736	ESTs; Weakly similar to allograft inflam	2.31	DU145_cells, A549_cells, Lu_LC_H460
123512	AA600248	He 142245	HERV-H LTR-associating 3	2.31	PC3_cells, 293T_cells, DU145_cells
		Hs.12680		2.31	HS578T_cells, MB231_cells, Lu_SQ_H520
	H72971	110.12000	KIAA0277 gene product	2.31	Lu_SC_H345, DU145_cells, OVCAR_cells
	AA402494	He 3000		2.31	HS578T_cells, DU145_cells, LNCaP_cells
	W86291	Hs.121593		2.3	HMEC, HMEC (total RNA), EB_cells
		Hs.184721		2.3	DU145_cells, PC3_cells, PRSC_log
	AA101767		ESTs	2.3	EB_cells, HMEC (total RNA), Lu_LC_H460
	AA071539	115.10454	zm74b6.s1 Stratagene neuroepithelium (#9	2.0	CD_0030,E0 (WW.1447), E0_10
100000	7701 1000		HYDROXYSTEROID DEHYDROGENASE/DE	TA-S-DEI	2.3 HT29_cells, RPWE_2, Lu_AD_H23
115682	ΔΔ410300	Hs.44618		2.3	HT29_cells, Lu_SQ_H520, Lu_AD_H23
	M23161		Human transposon-like element mRNA	2.3	EB_cells, CALU6_cells, A549_cells
	N59858		H sapiens mRNA; cDNA DKFZp434N185 (from		2.3 LNCaP_cells, DU145_cells, PRSC_log
		Hs 78746	phosphodiesterase &A	2.29	DU145_cells, A549_cells, MCF7
	N62339		heat shock 90kD protein 1; alpha	2.29	MCF7, DU145_cells, EB_cells
	H20522	Hs.20969		2.29	Fibroblasts 2, MB-MDA-435s, Lu_LC_H460
			ESTs; Weakly similar to IIII ALU CLASS C	2.29	EB_cells, Lu_SC_H345, Lu_SC_H69
	R07210	Hs.19913		2.29	CALU6_cells, EB_cells, MCF7
	F03077	Hs.106672		2.29	HS578T_cells, RPWE_2, Lu_AD_358
		Hs.176757		2.29	LNCaP_cells, DU145_cells, OVCAR_cells
					DU145_cells, PRSC_con, PRSC_log
		H3. 132001		2.29	Lu AD H23, Lu_SC_H345, Lu_SC_H69
	AA299949	Ha 9209	EST12545 Uterus tumor I H sapiens cDNA 3		DU145_cells, PC3_cells, LNCaP_cells
	AA406373	Hs.187763	ESTS ESTe	2.28 2.28	BT474_cells, BT474_cells, Lu_SC_H69
		Hs.59498		2.28	EB_cells, 293T_cells, MB-MDA-453
	N33807		protease; serine; 15	2.28	LNCaP_cells, MCF7, PC3_cells
101004			v-ets avian erythroblastosis virus E26 o	2.28	HT29_cells, MB-MDA-435s, HMEC (total RNA)
	H09813		KIAA1034 protein	2.28	EB_cells, CALU6_cells, 293T_cells
	N92571	Hs.54808		2.28	HS578T_cells, 293T_cells, A549_cells
	T94328	Hs.194533		2.28	LU_SC_H345, LU_SC_H69, 293T_cells
	N32226	Hs.124058		2.28	CALU6_cells, HMEC, Lu_AD_H23 OVCAR_cells, Lu_SC_H69, MCF7
132/32	AA424424	Hs.107884	hemoglobin; gamma G	2.28	HS578T_cells, CALU6_cells, Caco2
123003	771014ZT	110-107-004	E013	2.28	Troote I_comp, CALCO_com, Calco

1	111658	R16981	Hs.15276	ESTs	2.28	MB-MDA-435s, 293T_cells, A549_cells
		R55757	Hs.26457	EST	2.28	Lu_SC_H345, Lu_SC_H69, Lu_AD_358
		W69310	Hs.740	PTK2 protein tyrosine kinase 2	2.28	EB_cells, PC3_cells, DU145_cells
		T10822	Hs.4095	ESTS	2.28	LNCaP_cells, EB_cells, PC3_cells
	113113	AA256524	T3.40047	Human DNA seq from clone 30M3 on chromo yeast and archaea bacterial genes; and	s 2. <i>2</i> 7	A549_cells, EB_cells, LNCaP_cells
•	102130	U15009	Hs.1575	small nuclear ribonucleoprotein D3 polyp	2.27	LNCaP_cells, Caco2, EB_cells
		Z41424	Hs.21259	ESTs	2.27	HT29_cells, OVCAR_cells, Fibroblasts 2
		AA476436		ESTs	2.27	Lu_AD_358, RPWE_2, Lu_AD_H23
•	119359	T71021	Hs.93334	ESTs; Highly similar to WS basic-helix-l	2.27	Lu_SC_H69, 293T_cells, DU145_cells
1	106301	AA435867	Hs.168212	kinesin family member 38	2.27	OVCAR_cells, LNCeP_cells, EB_cells
		L13738		activated p21cdc42Hs kinase	2.27	MB-MDA-453, DU145_cells, DU145_cells
		W69468	Hs.47622		2.27	PC3_cells, HT29_cells, A549_cells
		AA150199		DKFZP586D0919 protein	2.27	EB_cells, HS578T_cells, Lu_AD_358
		Y08614	Hs.79090 Hs.220687	exportin 1 (CRM1; yeast; homolog)	2.26 2.26	EB_cells, CALU6_cells, DU145_cells EB_cells, Lu_AD_H23, Lu_AD_358
		W84704		ESTS	2.26	HS578T_cells, OVCAR_cells, MB-MDA-435s
		AA609600		ESTs	2.26	LNCaP_cells, OVCAR_cells, DU145_cells
		T95641		ESTs; Weakly similar to Hrs [H.sapiens]	2.26	Lu_AD_H23, Lu_SC_H69, PRSC_log
		AA227498	Hs.3623	ESTs	2.26	HS578T_cells, 293T_cells, Lu_SC_H345
•	130094	H43286	Hs.167017	gamma-aminobutyric acid (GABA) B recepto	2.26	Fibroblasts 2, MB231_cells, 293T_cells
•	111874	R37959	Hs.13358	ESTs	2.26	CALU6_cells, Lu_SQ_H520, 293T_cells
				ESTs; Weakly similar to CALPAIN 2; LARGE	2.26	HT29_cells, MB-MDA-453, PC3_cells
		N74702	Hs.102834		2.26	293T_cells, CALU6_cells, CALU6_cells
		W67569		ESTs; Weakly similar to SNF2alpha protei	2.26 2.26	293T_cells, OVCAR_cells, Lu_SC_H345 LNCaP_cells, DU145_cells, MB-MDA-435s
		AA470080 N22798	Hs.43248	ESTs; Moderately similar to CGI-34 prote EST	2.26	HT29_cells, BT474_cells, Fibroblasts 2
		X54942	Hs.83758	CDC28 protein kinase 2	2.26	DU145_cells, CALU6_cells, LNCaP_cells
		T99337	Hs.18624		2.26	Lu AD H23, Lu SC H345, Lu SC H69
		R69227	Hs.101489		2.26	Lu_SC_H345, DU145_cells, OVCAR_cells
		HG2992-H		Beta-Hexosaminidase, Alpha Polypeptide,	2.26	HT29_cells, BT474_cells, Lu_SC_H345
		AA443958	Hs.90960	ESTs	2.26	Caco2, 293T_ceils, DU145_cells
		H17476	Hs.11615	ESTs; Highly similar to map kinase phosp	2.25	CALU6_cells, LNCaP_cells, PC3_cells
		N91973	Hs.23595		2.25	Lu_SQ_H520, Lu_AD_H23, RPWE_2
				interleukin 13 receptor; alpha 1	2.25	OVCAR_ceils, 293T_ceils, DU145_ceils
			Hs.126705 Hs.79013		2.25 2.25	EB_cells, Lu_AD_H23, Lu_AD_H23 293T_cells, EB_cells, OVCAR_cells
		Z24724	Hs.4934	H.saplens polyA site DNA	2.25	EB_cells, HS578T_cells, Cacc2
		AA131328	113.7557	zo8d1.s1 Stratagene neuroepithelium NT2R	LILU	
				SW:COX2_MOUSE P45 CYTOCHROME C (XIDASE P	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69
	129499	R40395	Hs.242908	SW:COX2_MOUSE P45 CYTOCHROME C C lecithin-cholesterol acytransferase	2.25	HMEC (total RNA), Fibroblasts 2, HMEC
•	124758	R38422	Hs.169168	lecithin-cholesterol acyltransferase ESTs	2.25 2.25	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460
	124758 130301	R38422 X83127	Hs.169168 Hs.172471	lecithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker-	2.25 2.25 2.25	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells
	124758 130301 131263	R38422 X83127 R38334	Hs.169168 Hs.172471 Hs.24950	lectithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5	2.25 2.25 2.25 2.25	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69
•	124758 130301 131263 107159	R38422 X83127 R38334 AA621340	Hs.169168 Hs.172471 Hs.24950 Hs.10600	lectithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c	2.25 2.25 2.25 2.25 2.25 2.25	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells
	124758 130301 131263 107159 133262	R38422 X83127 R38334 AA621340 N72009	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710	lectithin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs	2.25 2.25 2.25 2.25 2.25 2.25 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells
	124758 130301 131263 107159 133262 132985	R38422 X83127 R38334 AA621340 N72009 AA093619	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113	lectithin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein	2.25 2.25 2.25 2.25 2.25 2.25 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCAP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCAP_cells EB_cells, Lu_AD_H23, Lu_AD_358
	124758 130301 131263 107159 133262 132985 114172	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421	lectithin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu	2.25 2.25 2.25 2.25 2.25 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells
	124758 130301 131263 107159 133262 132985 114172 127847	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113	lectithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs	2.25 2.25 2.25 2.25 2.25 2.25 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SQ_H520
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023	lectithin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs KIAA0917 protein	2.25 2.25 2.25 2.25 2.25 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_J23, Lu_AD_J358 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells CALU6_cells
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453	lectithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OXCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SQ_H520 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, LL_SC_H345, Lu_AD_H23
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.16727 Hs.27023 Hs.191453 Hs.120405	lectithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desuffu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H520 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941	lectithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565	R38422 X83127 R38334 AA621340 AA621340 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527	lectithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H520 LNCaP_ceils, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA)
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA42667 Z41342 AA063001 AA421761	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.626710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603	lectithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_CC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA083001 AA421761 AA608546	Hs.169168 Hs.172471 Hs.24950 Hs.10800 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.2941 Hs.103527 Hs.77603 Hs.21906	lectithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H520 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells BT474_cells, EB_cells, LNCaP_cells
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108776 108776 114334 114565 115766 130989 116304	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA083001 AA421761 AA608546	Hs.169168 Hs.172471 Hs.24950 Hs.10800 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.2941 Hs.103527 Hs.77603 Hs.21906	lectithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H520 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC
	124758 130301 131263 107159 133262 132985 114172 105499 105095 108876 121971 114334 114565 115766 130989 116304 111154	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA689461 AA689465 AA689465 AA689465 AA688465 AA688465 AA688465 AA688465 AA6888461	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.21906 Hs.64742 Hs.29169 Hs.16029	lecithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC
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	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 116304	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA608546 AA489461 N66545 AA262881 AA04421 AA085342 AA058342 AA058342 AA658882	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.176727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.29169 Hs.64742 Hs.29169 Hs.16029 Hs.16029 Hs.16029 Hs.16258 Hs.16146 Hs.4832	lecithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-4355, MB221_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, PMEC_2 DU145_cells, MCF7, Lu_SC_H345
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	124758 130301 131263 107159 133262 1322985 114172 127847 106499 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA083001 AA421761 AA689461 AA689461 N66545 AA262881 AA404421 AI085342 AA458882 AA424545 D20728	Hs.169168 Hs.172471 Hs.24950 Hs.10500 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.103527 Hs.77603 Hs.299169 Hs.16029 Hs.16029 Hs.166146 Hs.4832 Hs.4832 Hs.56851 Hs.30767	lectthin-cholesterol acyftransferase ESTs potassium vottage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desuffu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, PC3_cells, RPWE_2 DU145_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s
	124758 130301 131263 107159 133262 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206 133708	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA6895461 AA6895461 AA6895461 AA6895461 AA685462 AA468881 AA404421 AI0853342 AA458882 AA458882 AA424545 AA424545 R421728 R42172	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.21906 Hs.64742 Hs.29169 Hs.16029 Hs.16029 Hs.166146 Hs.4832 Hs.56851 Hs.56851 Hs.5667 Hs.75667	lecithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 Lu_AD_H23, EB_cells, Lu_SC_H69 Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-4355, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-4355, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, MCF7, Lu_SC_H345 EB_cells, LU_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-4355 Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, Fibroblasts 2, MB-MDA-4355 Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells
	124758 130301 131263 107159 133262 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206 133708 133708	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA688461 AA688546 AA68545 AA262881 AA404421 AI085342 AA458882 AA458882 AA424545 D20728 R42172 AA227567	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.21906 Hs.64742 Hs.2941 Hs.16029 Hs.16029 Hs.16029 Hs.16029 Hs.1605851 Hs.36851 Hs.30767 Hs.75667 Hs.9482	lectthin-cholesterol acyftransferase ESTs potassium vottage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desuffu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, PC3_cells, RPWE_2 DU145_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, LB_cells DU145_cells, MB231_cells, LB_cells
	124758 130301 131263 107159 133262 133262 132985 114172 127847 106499 105095 105876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206 133708 133708	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA6895461 AA6895461 AA6895461 AA6895461 AA685462 AA468881 AA404421 AI0853342 AA458882 AA458882 AA424545 AA424545 R421728 R42172	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.21906 Hs.64742 Hs.2941 Hs.16029 Hs.16029 Hs.16029 Hs.16029 Hs.1605851 Hs.36851 Hs.30767 Hs.75667 Hs.9482	lectithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 Lu_AD_H23, EB_cells, Lu_SC_H69 Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-4355, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-4355, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, MCF7, Lu_SC_H345 EB_cells, LU_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-4355 Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, Fibroblasts 2, MB-MDA-4355 Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells
	124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105591 105939 126379 106610 132786 107206 132786 107206 135123 135123 135123 135123 116934	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA608546 AA489461 AA608545 AA262881 AA404421 AI085342 AA458882 AA458882 AA424545 D20728 R42772 AA227567 AA157401	Hs.169168 Hs.172471 Hs.24950 Hs.10800 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.21906 Hs.64742 Hs.29169 Hs.16029 Hs.16029 Hs.16029 Hs.16029 Hs.165651 Hs.30767 Hs.75667 Hs.9482 Hs.4113	lectthin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCAP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCAP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCAP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_C_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCAP_cells, DU145_cells BT474_cells, EB_cells, LNCAP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCAP_cells, DU145_cells HS578T_cells, PC3_cells, RPWE_2 DU145_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, Lu_SC_H345, Lu_LC_H460 CALU6_cells, Lu_SC_H345, Lu_LC_H460
	124758 130301 131263 107159 133262 132985 114172 127847 106499 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206 133708 135123 132156 116934	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA083001 AA421761 AA688546 AA688461 N66545 AA262881 AA404421 AI085342 AA458882 AA424545 D20728 R42172 AA227567 AA157401 H75624 R87373	Hs.169168 Hs.172471 Hs.24950 Hs.10500 Hs.10500 Hs.268710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.103527 Hs.77603 Hs.29169 Hs.16029 Hs.166146 Hs.4832 Hs.268551 Hs.30767 Hs.75667 Hs.9482 Hs.4113 Hs.39662	lecithin-cholesterol acyftransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Ll_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_C_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, DU145_cells HS578T_cells, MCF7, Lu_SC_H345 EB_cells, LNCaP_cells, DU145_cells HS578T_cells, MCF7, Lu_SC_H345 EB_cells, LLAD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, A549_cells, LNCaP_cells CALU6_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, A549_cells, PC3_cells
	124758 130301 131263 107159 133262 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206 133708 135123 132156 116934 133660	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA422667 Z41342 AA083001 AA421761 AA688545 AA262881 AA404421 AI085342 AA458882 AA424545 D20728 R42172 AA227567 AA157401 H75624 R87373 W23633	Hs.169168 Hs.172471 Hs.24950 Hs.10500 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.103527 Hs.77603 Hs.21906 Hs.16029 Hs.16029 Hs.16029 Hs.16029 Hs.1606146 Hs.4832 Hs.56851 Hs.4832 Hs.56851 Hs.75667 Hs.9482 Hs.4113 Hs.39662 Hs.125043	lectthin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-4355, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-4355, HMEC HS578T_cells, A549_cells, HMEC EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-4355 Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, A549_cells, Lu_SC_H60 DT45_cells, A549_cells, Lu_SC_H60 DT45_cells, A549_cells, Lu_LC_H460 DU145_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, A549_cells, PC3_cells
	124758 130301 131263 107159 133262 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786 107206 132786 107206 1132786 1107206 1132786 11433708 135123 132156 116934 133660	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA083001 AA421761 AA6895461 AA6895461 AA6895461 AA6885462 AA4685462 AA4685462 AA4685462 AA4685462 AA468881 AA404421 AA68881 AA404421 AA68881 AA404421 AA68881 AA6881 AA6881 AA68881 AA68881 A	Hs.169168 Hs.172471 Hs.24950 Hs.10800 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.21906 Hs.64742 Hs.29169 Hs.16029 Hs.16029 Hs.16029 Hs.16029 Hs.165851 Hs.30767 Hs.75667 Hs.9482 Hs.4113 Hs.39662 Hs.125043 Hs.78802	lectthin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, Lu_SC_H69 BT474_cells, MB231_cells, Lu_SC_H60 DT145_cells, A549_cells, PC3_cells CALU6_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, A549_cells, PC3_cells 293T_cells, MB-MDA-435, OVCAR_cells LU_SC_H365, EB_cells, MB-MDA-4355 Lu_CC_Pcells, EB_cells, MB-MDA-4355 Lu_SC_H345, EB_cells, MB-MDA-4355 Lu_SC_H345, CALU6_cells, PC3_cells
	124758 130301 131263 107159 133262 132985 114172 106499 106499 106876 121971 114334 114565 115766 130989 116304 111154 105591 105939 126379 106610 132786 107206 132786 107206 132786 107206 132786 107206 132786 105939 106610 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 10	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA608546 AA489461 N66545 AA262881 AA404421 AA085342 AA458882 AA424545 D20728 R42172 AA227567 AA157401 H75624 R87373 W23633 L33801 AA253460	Hs.169168 Hs.172471 Hs.24950 Hs.10800 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.29169 Hs.64742 Hs.29169 Hs.16029 Hs.1258 Hs.1258 Hs.16029 Hs.16029 Hs.1258 Hs.30767 Hs.75667 Hs.9482 Hs.4813 Hs.39662 Hs.125043 Hs.78802	lectthin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-4355, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-4355, HMEC HS578T_cells, A549_cells, HMEC EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-4355 Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, A549_cells, Lu_SC_H60 DT45_cells, A549_cells, Lu_SC_H60 DT45_cells, A549_cells, Lu_LC_H460 DU145_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, A549_cells, PC3_cells
	124758 130301 131263 107159 133262 132985 114172 106499 106499 106876 121971 114334 114565 115766 130989 116304 111154 105591 105939 126379 106610 132786 107206 132786 107206 132786 107206 132786 107206 132786 105939 106610 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 132786 107206 10	R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA083001 AA421761 AA6895461 AA6895461 AA6895461 AA6885462 AA4685462 AA4685462 AA4685462 AA4685462 AA468881 AA404421 AA68881 AA404421 AA68881 AA404421 AA68881 AA6881 AA6881 AA68881 AA68881 A	Hs.169168 Hs.172471 Hs.24950 Hs.10800 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453 Hs.120405 Hs.22941 Hs.103527 Hs.77603 Hs.29169 Hs.64742 Hs.29169 Hs.16029 Hs.1258 Hs.1258 Hs.16029 Hs.16029 Hs.1258 Hs.30767 Hs.75667 Hs.9482 Hs.4813 Hs.39662 Hs.125043 Hs.78802	lectthin-cholesterol acyttransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU8_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALU6_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, Lu_SC_H69 BT474_cells, MB231_cells, Lu_SC_H60 DT145_cells, A549_cells, PC3_cells CALU6_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, A549_cells, PC3_cells 293T_cells, MB-MDA-435, OVCAR_cells LU_SC_H365, EB_cells, MB-MDA-4355 Lu_CC_Pcells, EB_cells, MB-MDA-4355 Lu_SC_H345, EB_cells, MB-MDA-4355 Lu_SC_H345, CALU6_cells, PC3_cells

114148	Z38804	Hs.184777	ESTs; Moderately similar to OPIOID BINDI		
			MOLECULE PRECURSOR [H.saplens]	2.23	HS578T_cells, Fibroblasts 2, Lu_SC_H345
	X98001	Hs.78948		2.22	LNCaP_cells, EB_cells, 293T_cells
	AA027112			2.22	EB_cells, Lu_AD_H23, Fibroblasts 2
	N90029	Hs.6831	H saptens clone 1400 unknown protein mRN		293T_cells, PC3_cells, DU145_cells
			ring finger protein 2	2.22 2.22	EB_cells, Lu_SC_H69, Lu_SC_H345 EB_cells, Lu_AD_H23, Lu_SC_H345
	R75630 H05734	Hs.177242	•	2.22	Lu_SQ_H520, 293T_cells, RPWE_2
	Al305162	Hs.30559		2.22	MCF7, HT29_cells, MB-MDA-453
	U77456		nucleosome assembly protein 1-like 4	2.22	Caco2, EB_cells, CALU6_cells
	AA427625	Hs 23272	ESTs	2.22	293T_celis, EB_celis, A549_celis
	N79045		ESTs; Weakly similar to IIII ALU SUBFAMI	2.22	Lu_SC_H345, Lu_SC_H69, DU145_cells
	U16306		chondroitin sulfate proteoglycan 2 (vers	2.22	HS578T_cells, PRSC_log, CALU6_cells
	R51248	Hs.16027		2.22	293T_cells, HMEC (total RNA), HMEC (total RNA)
123693	AA609591			2.22	HT29_cells, HMEC (total RNA), BT474_cells
129052	AA496297	Hs.182740	ribosomat protein S11	2.22	EB_cells, Lu_AD_H23, Lu_AD_358
	AA448271	Hs.99126	ESTs	2.21	Lu_AD_H23, HT29_cells, Lu_AD_358
	R37753	Hs.106985		2.21	EB_cells, Lu_AD_H23, Lu_SC_H345
	R05835		ESTs; Weakly similar to B-CELL GROWTH F		2.21 EB_cells, Lu_AD_H23, Lu_AD_358
	AA442853		cyclin-dependent kinase 5; regulatory su	2.21	HT29_cells, Lu_LC_H460, Lu_SC_H69
	AA424570			2.21	EB_cells, Lu_AD_H23, Lu_SC_H69
			U4/U6-associated RNA splicing factor	2.21	MCF7, Lu_SC_H345, DU145_cells EB_cells, Cacc2, DU145_cells
	AA431191			2.21 2.2	EB_cells, Lu_AD_H23, Lu_SC_H69
	AA370091 AA255874			2.2	LNCaP_ceils, DU145_ceils, PC3_ceils
	N93503	Hs.54961	ESTs stoned B/TFIIA-alpha/beta-like factor	2.2	293T_cells, HS578T_cells, OVCAR_cells
	AA346041			2.2	HT29 cells, HS578T_cells, 293T_cells
	AA425382		ESTs	2.2	CALU6_cells, PC3_cells, EB_cells
	U14391	Hs.82251		2.2	A549_cells, EB_cells, Caco2
	AA232125			2.2	HT29_ceils, Lu_LC_H460, CALU6_ceils
	AA490882			2.2	Lu_SC_H345, BT474_cells, Caco2
	T49325	Hs.8977	ESTs	2.2	Lu_SQ_H520, Lu_AD_H23, Lu_AD_358
	AI041014			2.2	EB_cells, Lu_AD_H23, Lu_AD_H23
			ESTs; Highly similar to NY-REN-6 antigen	2.2	CALU6_cells, A549_cells, EB_cells
	AA411685		ESTs	2.2	OVCAR_cells, EB_cells, Caco2
106267	AA431873	Hs.4988	H sapiens clone 24711 mRNA seq	2.2	Lu_SQ_H520, EB_cells, PC3_cells
112881	T03593	Hs.182814	ESTS	2.19	A549_ceils, OVCAR_cells, 293T_cells
116902	H70739		yu69f11.s1 Weizmann Olfactory Epithelium		
			IMAGE:239085 3' similar to contains LTR	2.19	LNCaP_cells, DU145_cells, PC3_cells
	AA280865		H saplens mRNA; cDNA DKFZp564K0222 (fr		2.19 HMEC, Caco2, HMEC (total RNA)
	R31652	Hs.821	biglycan	2.19	Fibroblasts 2, Lu_SC_H69, HS578T_cells
	R08234	Hs.180461		2.19	Lu_AD_358, Lu_AD_H23, Lu_SQ_H520
108491	AA082973		zn7g1.s1 Stratagene hNT neuron (#937233)	· /u	2.19 Lu_AD_358, RPWE_2, Lu_LC_H460
400076	HUUSEE	Nº 33238	to gb:M3672 6S RIBOSOMAL PROTEIN L74		2.19 Lu_AD_358, RPWE_2, Lu_LC_H460 PRSC_log, Lu_SC_H345, Lu_SC_H69
	H09356 AA521354	Hs.22528	ESTs ESTs	2.19 _2.19	EB_ceils, LNCaP_ceils, OVCAR_ceils
	AA443919		ESTs	2.19	EB_cells, Lu_AD_358, PRSC_con
	AI016490		SEC24 (S. cerevislae) related gene famil	2.19	HT29_cells, Lu_SC_H69, Lu_AD_H23
	H97188	Hs.35096	ESTs		
	R11267			2.19	DU145 cells. Fibroblasts 2, PRSC con
		MS. 1805/U	H saplens chromosome 19: cosmid F22329	2.19 2.19	DU145_cells, Fibroblasts 2, PRSC_con 293T cells, MB-MDA-435s, A549_cells
	? AA102652		H sapiens chromosome 19; cosmid F22329 ESTs; Weakly similar to coded for by C.	2.19	DU145_cells, Fibroblasts 2, PRSC_con 293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520
119898		Hs.22753	ESTs; Weakly similar to coded for by C.	2.19 2.18	293T_cells, MB-MDA-435s, A549_cells
	2 AA102652 6 W84738 8 N69022		ESTs; Weakly similar to coded for by C. ESTs	2.19	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520
118594	W84738	Hs.22753 Hs.137319	ESTs; Wealdy similar to coded for by C. ESTs ESTs	2.19 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells
118594 129788	W84738 N69022	Hs.22753 Hs.137319 Hs.49599 Hs.246109	ESTs; Wealdy similar to coded for by C. ESTs ESTs	2.19 2.18 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345
118594 129788 104325	W84738 N69022 H98977	Hs.22753 Hs.137319 Hs.49599 Hs.246109	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28f10.s1 NCL_CGAP_GCB1 H sapiens cDI	2.19 2.18 2.18 2.18 2.18 2.18 2.18 NA	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells
118594 129786 104325 123022	W84738 N69022 H98977 D81608 AA480909	Hs.22753 Hs.137319 Hs.49599 Hs.246109	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element	2.19 2.18 2.18 2.18 2.18 2.18 2.18 NA 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells
118594 129786 104325 123022 133572	W84738 N69022 H98977 D81608 AA480909	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28f10.s1 NCI_CGAP_CCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr	2.19 2.18 2.18 2.18 2.18 2.18 2.18 NA 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520
118594 129786 104325 123022 133577 133363	W84738 N69022 H98977 D81608 AA480909 W94333 AA479713	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499 Hs.71962	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28f10.s1 NC_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs	2.19 2.18 2.18 2.18 2.18 2.18 NA 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2
118594 129786 104325 123022 133572 133363 135361	W84738 N69022 H98977 D81608 AA480909 W94333 AA479713 AA053319	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499 Hs.71962 Hs.167700	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28f10.s1 NC_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2
118594 129786 104325 123022 133577 133363 135361 128315	8 W84738 N69022 H98977 D81608 2 AA480909 W94333 AA479713 AA053319 AA808904	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499 Hs.71962 Hs.167700	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28f10.s1 NC_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2
118594 129786 104325 123022 133572 133363 135361 128315 DU145	6 W84738 1 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 3 AA479713 4 AA053319 9 AA808904 _cells	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499 Hs.71962 Hs.167700 Hs.115095	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs Polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, Lu_SC_H345, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18 Lu_SC_H345, OVCAR_cells,
118594 129786 104325 123022 133572 133363 135361 128319 DU145 128660	6 W84738 1 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 3 AA479713 4 AA053319 9 AA808904 _cells 0 AA011597	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Cacc2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Cacc2 2.18
118594 129786 104325 123022 133572 133363 135361 128315 DU145 128660 114877	6 W84738 N69022 6 H98977 5 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 AA808904 cells 0 AA011597 7 AA235618	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095	ESTs; Weakly similar to coded for by C. ESTs eNth (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 NA 2.18 2.18 2.18 2.18 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, Lu_SC_H345, LNCaP_cells Cacc2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Cacc2 2.18
118594 129786 104325 123022 133577 133363 135361 128315 DU145 128660 114877 125925	6 W84738 N69022 6 H98977 5 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 3 AA808904 _cells 5 AA235618 6 H28737	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs Polymerase (RNA) II (DNA directed) polyp aa28/10.s1 NCL_GAP_GCB1 H sapiens cDi Atu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTF ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_cells, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, Lu_SC_H345, LNCaP_cells Cacc2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Cacc2 2.18
118594 129786 104325 123022 133572 133363 135361 128361 128660 114877 125925 113427	6 W84738 1 N69022 6 H98977 5 D81608 2 AA480909 2 W94333 3 AA479713 4 AA053319 3 AA808904 _cells 5 AA011597 7 AA235618 6 H28737 7 T85105	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.7499 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDI Atu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTF ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133572 133363 135361 128315 12427 114877 125925 113427 117500	6 W84738 N69022 6 H98977 5 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 3 AA808904 cells 0 AA011597 7 AA235618 6 H28737 7 T85105 0 N31909	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.15471 Hs.44278	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTF ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18 Lu_SC_H345, OVCAR_cells, EB_cells, Lu_AD_H23, Lu_SQ_H520 DU145_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_SC_H345, HS578T_cells EB_cells, Lu_AD_H23, Lu_SC_H69 PRSC_con, Lu_SC_H345, PRSC_log
118594 129786 104325 123022 133577 133363 135361 128319 DU145 128660 114877 125925 113422 117500 131384	6 W84738 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 6 AA479713 AA053319 AA053319 AA053319 7 AA235618 6 H28737 7 T85105 9 N31909 8 F13608	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.15471 Hs.44278 Hs.26226	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs Polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133577 133363 135361 128319 DU145 128660 114877 125925 113422 117500 131384	6 W84738 N69022 6 H98977 5 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 AA808904 _cells 5 AA011597 7 AA235618 6 H28737 7 T85105 N31909 8 F13608 0 U70370	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.205125 Hs.205125 Hs.26226 Hs.84138	ESTs; Weakly similar to coded for by C. ESTs Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, Lu_SC_H345, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133577 133363 13536 128315 128666 114877 125925 113427 117500 131344 134495 128154	6 W84738 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 6 AA479713 AA053319 AA053319 AA053319 7 AA235618 6 H28737 7 T85105 9 N31909 8 F13608	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.15471 Hs.44278 Hs.265226 Hs.84138 Hs.26226 Hs.84138	ESTs; Weakly similar to coded for by C. ESTs Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, Lu_SC_H345, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133577 133363 135361 128318 DU1455 12866 114877 125925 113427 117500 131384 12815 134458 104987	6 W84738 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 8 AA479713 1 AA053319 3 AA803904 _cells 0 AA011597 AA235618 6 H28737 7 T85105 0 N31909 8 F13608 0 U70370 1 AA922969 6 T48154 7 AA101723	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.71962 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.44278 Hs.26226 Hs.84138 Hs.26226 Hs.84138 Hs.166855 Hs.16683	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs ESTs Polymerase (RNA) II (DNA directed) polyp aa28/10.s1 NCL_CGAP_GCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133577 133363 135361 128315 DU145 128660 114877 125925 113429 134496 128156 104988 104988 104988 132995	6 W84738 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 6 AA479713 AA053319 AA053319 AA011597 AA235618 6 AA011597 7 T85105 1 N31909 8 F13608 0 U70370 1 AA922969 6 T48154 7 AA101723 2 AA091017	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.71962 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.44278 Hs.26226 Hs.84138 Hs.26226 Hs.84138 Hs.166855 Hs.16683	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs ESTs Polymerase (RNA) II (DNA directed) polyp aa28/10.s1 NCL_CGAP_GCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Lu_SQ_H520 DU145_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_SC_H345, HS578T_cells EB_cells, Lu_AD_H23, Lu_SC_H69 PRSC_con, Lu_SC_H345, PRSC_log 293T_cells, LNCaP_cells, OVCAR_cells Caco2, BT474_cells, MB231_cells MB-MDA-453, MB-MDA-453, Lu_SC_H345 LNCaP_cells, 293T_cells, PRSC_log EB_cells, MB-MDA-453, Lu_SC_H345 LNCaP_cells, 293T_cells, PRSC_log EB_cells, MCF7, DU145_cells Caco2, LNCaP_cells, DU145_cells Caco2, LNCaP_cells, DU145_cells
118594 129786 104325 123022 133577 133363 13536 128315 DU145 128666 114877 125925 113427 1175925 134585 104987 134585 104987 13531	6 W84738 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 AA053319 AA053319 7 AA235618 6 H28737 7 T85105 9 N31909 8 F13608 0 U70370 8 AA922969 6 T48154 7 AA101723 2 AA091017 M36089	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.15471 Hs.44278 Hs.26226 Hs.84138 Hs.127100 Hs.168655 Hs.168655 Hs.168633 Hs.6226 Hs.98493	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133577 133363 13536 128315 128456 114877 125925 113427 117500 13138 134495 13458 104987 132935 132935 131317	6 W84738 N69022 6 H98977 5 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 AA808904 Cells 0 AA011597 7 AA235618 6 H28737 7 T85105 0 N31909 8 F13608 0 U70370 3 AA922969 6 T48154 7 AA101723 2 AA091017 M36089 1 T54613	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.15471 Hs.44278 Hs.26226 Hs.84138 Hs.127100 Hs.168655 Hs.168658 Hs.168658 Hs.168658 Hs.168683 Hs.168658 Hs.168658 Hs.168658	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCI_CGAP_GCB1 H sapiens cDi Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs; Wooderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caoo2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18
118594 129786 104325 123022 133577 133363 13536 128315 128456 114877 125925 113427 117500 13138 134495 13458 104987 132935 132935 133531 13137	6 W84738 N69022 6 H98977 6 D81608 2 AA480909 2 W94333 3 AA479713 AA053319 AA053319 AA053319 7 AA235618 6 H28737 7 T85105 9 N31909 8 F13608 0 U70370 8 AA922969 6 T48154 7 AA101723 2 AA091017 M36089	Hs.22753 Hs.137319 Hs.49599 Hs.246109 Hs.150675 Hs.71962 Hs.167700 Hs.115095 Hs.177398 Hs.205125 Hs.15471 Hs.44278 Hs.26226 Hs.84138 Hs.127100 Hs.168655 Hs.168655 Hs.168633 Hs.6226 Hs.98493	ESTs; Weakly similar to coded for by C. ESTs ESTs ESTs ESTs ESTs polymerase (RNA) II (DNA directed) polyp aa28H0.s1 NCL_CGAP_GCB1 H sapiens cDI Alu repetitive element; contains element translocase of inner mitochondrial membr ESTs ESTs ESTs; Weakly similar to RHO-RELATED GTR ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18	293T_celts, MB-MDA-435s, A549_cells MCF7, MB-MDA-453, Lu_SQ_H520 293T_cells, 293T_cells, OVCAR_cells Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 293T_cells, 293T_cells, 293T_cells PC3_cells, Lu_SC_H345, LNCaP_cells PC3_cells, Lu_SC_H345, LNCaP_cells OVCAR_cells, DU145_cells, LNCaP_cells Caco2, LNCaP_cells, Lu_SQ_H520 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, 293T_cells, Caco2 2.18

125181	W58461	Hs.12396	ESTs	2.16	LNCaP_cells, DU145_cells, 293T_cells
120187		Hs.56974	ESTs	2.16	LNCaP_cells, MB-MDA-453, HMEC (total RNA)
	D50532	Hs.54403	macrophage lectin 2 (calcium dependent)	2.16	HT29_cells, Lu_AD_H23, Lu_AD_H23
110960	N50887	Hs.26549	ESTs; Weakly similar to KIAA0449 protein	2.16	Caco2, A549_cells, LNCaP_cells
113608			ESTs; Moderately similar to IIII ALU SUB	2.16	Lu_SC_H69, CALU6_cells, 293T_cells
	Z21089		ESTs; Weakly similar to KALIRIN [R.norve	2.16	HS578T_cells, 293T_cells, DU145_cells
	S76992	Hs.104005	vav 2 oncogene	2.16	RPWE_2, Lu_SC_H69, HT29_cells
	Al366484		ESTs	2.16	293T_cells, CALU6_cells, A549_cells
130000	AA465727	Hs.124084	ESTs; Weakly similar to IIII ALU SUBFAMI	2.16	DU145_cells, LNCaP_cells, OVCAR_cells
120407	AA235040	Hs.107283	ESTs	2.16	EB_cells, 293T_cells, A549_cells
	AA400371			2.16	Lu_AD_358, Lu_AD_H23, A549_cells
	AA243867			2.16	DU145_cells, PRSC_con, LNCaP_cells
	D63874	HS.189509	high-mobility group (nonhistone chromoso	2.15	CALU6_cells, MB-MDA-453, Caco2
	T88822 N22181		yd32f5.s1 Soares fetal liver spleen 1NFL	2.15	Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 293T_cells, Lu_SC_H345, Lu_SC_H69
		He 460692	yw36d12.s1 Morton Fetal Cochlea H saplen ESTs; Moderately similar to !!!! ALU SUB	2.15 2.15	EB_cells, LNCaP_cells, HS578T_cells
			serine protease; umbilical endothelium	2.15	DU145_ceils, EB_ceils, Cacc2
	AA169866	110.104707	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.15	DU145_cells, LNCaP_cells, OVCAR_cells
	AA490142	Hs 6193	ESTs	2.15	Fibroblasts 2, Lu_AD_H23, PRSC_con
			H sapiens mRNA for TL132	2.15	MCF7, DU145_cells, LNCaP_cells
	AA044274			2.15	Lu_AD_358, MB-MDA-453, HS578T_cells
	U56637		capping protein (actin filament) muscle	2.15	LNCaP_cells, EB_cells, PC3_cells
	N80671	Hs.220255		2.14	EB_cells, DU145_cells, MCF7
115526	AA342049			2.14	293T_cells, Caco2, Lu_SC_H69
123460	AA598981	Hs.251122	EST	2.14	Lu_SC_H345, DU145_cells, MCF7
119812	W73951	Hs.58348	ESTs; Weakly similar to CORNIFIN A [H.sa	2.14	293T_cells, HS578T_cells, CALU6_cells
105263	AA227926	Hs.6682	ESTs	2.14	A549_cells, HMEC (total RNA), EB_cells
	W81679	Hs.5174	ribosomal protein S17	2.14	293T_cells, CALU6_cells, HMEC (total RNA)
132348	AA037285	Hs.170311	heterogeneous nuclear ribonucleoprotein	2.14	A549_cells, HT29_cells, Lu_SQ_H520
	AA015763	Hs.132812		2.14	293T_cells, HS578T_cells, PRSC_con
	Al369384		aryisulfatase D	2.14	DU145_cells, LNCaP_cells, EB_cells
	U29607			2.14	Lu_SC_H345, DU145_cells, MCF7
	AA461187			2.14	Lu_SC_H69, MCF7, MB-MDA-453
	R35166	Hs.14881		2.14	HT29_cells, Fibroblasts 2, BT474_cells
	N71364	Hs.109510		2.14	OVCAR_cells, PRSC_con, HS578T_cells
	T97977	Hs.60260		2.14 2.14	Lu_AD_H23, Lu_SQ_H520, Lu_SQ_H520 EB_cells, Lu_AD_H23, Lu_AD_358
	N67515 R45445	Hs.6479	ESTs; Weakly similar to KIAA0872 protein H saplens mRNA; cDNA DKFZp434D115 (fro		2.13 Lu_AD_H23, Lu_AD_358, BT474_cells
	AA236019			 2.13	MB-MDA-453, MCF7, Lu_SQ_H520
	H08773	110.10000	yi94d5.s1 Soares infant brain 1NIB H sap	2.13	Lu_SC_H69, Fibroblasts 2, HMEC (total RNA)
	R39191	Hs.109445	KIAA1020 protein	2.13	Caco2, 293T_cells, Lu_SC_H69
	W86835	Hs.14158	copine III	2.13	LNCaP_cells, PC3_cells, HS578T_cells
	AA196306		ESTs	2.13	Lu_SC_H345, Lu_SC_H69, Lu_LC_H460
	N24581	Hs.43230	ESTs .	2.13	HS578T_cells, CALU6_cells, PRSC_con
116046	AA453461	Hs.94491	H sapiens clone 23585 mRNA seq	2.13	LNCaP_cells, Cacc2, EB_cells
	R96478	Hs.16586		2.13	EB_cells, Lu_AD_H23, Lu_SC_H69
	AA428576			2.13	EB_cells, Lu_SC_H345, OVCAR_cells
	T49891		tumor protein; translationally-controlle	2.13	EB_cells, PRSC_con, LNCaP_cells
			platelet-derived growth factor receptor;	2.13	EB_cells, Lu_AD_H23, Lu_SC_H69
	H79560	Hs.107840		2.13	OVCAR_cells, 293T_cells, 293T_cells CALU6_cells, DU145_cells, PC3_cells
	D52420		cell division cycle 10 (homologous to CD ESTs; Highly similar to sec61 homolog [H	2.12 2.12	HT29_cells, MB231_cells, HMEC (total RNA)
	AA465226			2.12	EB_cells, 293T_cells, DU145_cells
	HG2264-H	. W.EUUJ 1	Atpase, Ca2+ Transporting, Plasma Membra		EB_cells, Lu_AD_H23, Lu_SC_H69
	AA450187	Hs.178518		2.12	OVCAR_cells, PC3_cells, 293T_cells
	H94650	Hs.108002		2.12	MB-MDA-453, Lu_SC_H345, HT29_cells
	T26925		vesicle-associated membrane protein 8 (e	2.12	MB-MDA-453, PC3_cells, LNCaP_cells
	T63313		ESTs; Moderately similar to IIII ALU SUB	2.12	HMEC (total RNA), BT474_cells, HMEC
111952	R40782	Hs.21296	ESTS	2.12	HT29_cells, PC3_cells, A549_cells
	W86519	Hs.19631		2.12	PC3_cells, EB_cells, LNCaP_cells
	AA043944	Hs.62663	ESTs	2.12	EB_cells, OVCAR_cells, 293T_cells
	H63994	Hs.221134		2.12	Fibroblasts 2, MB-MDA-453, PRSC_con
	AA447621			2.12	DU145_cells, EB_cells, Cacc2
	W44798	Hs.55876		2.12	PRSC_log, Lu_SC_H69, Lu_SC_H345
	R63068	Hs.159793		2.11	HS578T_cells, LNCaP_cells, OVCAR_cells
122/31	AA457549		aa92b1.s1 Stratagene fetal retina 93722	D ALII	2.11 MB-MDA-453, RPWE_2, MCF7
445040	AA204E00	Nº 000cu	gb:X5275_ma3 LEUKOSIALIN PRECURSOI		2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2
	AA281562			2.11	MB-MDA-435s, EB_cells, LNCaP_cells
	T54301	Hs.75844	ESTs; Weakly similar to predicted using	2.11 2.11	EB cells, CALU6_cells, DU145_cells
	U11870		interleukin 8 receptor, alpha	2.11	Lu_AD_358, PC3_cells, PRSC_con
	H05787		ubiquitin specific protease 22	2.11	EB cells, LNCaP_cells, Caco2
	AA256604			2.1	Fibroblasts 2, HS578T_cells, MB-MDA-435s
	R10334	Hs.15489		2.1	Lu SC_H69, PRSC_log, Lu_SC_H345
104275	C02170	Hs.39387	ESTs; Weakly similar to weak similarity	2.1	HT29_cells, MB231_cells, Lu_SC_H69
117803	N48620		pregnancy specific beta-1-glycoprotein 9	2.1	HT29_cells, HMEC, RPWE_2

122725	AA457407	Hs.152204	transmembrane protease; serine 2	2.1	Lu_SC_H69, Lu_LC_H460, Lu_SC_H345
120987	AA398233	Hs.111894	KIAA0108 gene product	2.1	Fibroblasts 2, PRSC_con, MCF7
		Hs.12185	ESTs; Wealdy similar to myosin phosphata	2.1	LNCaP_cells, MCF7, OVCAR_cells
	N64706	Hs.137282		2.1	Lu_SC_H345, HT29_cells, HMEC
103679	Z86000		Human DNA seq from PAC 151B14 on chron		ALLIA H. 4540 H. L. 00 1045
400000	1 40000	11 400-00	receptor subtype 3 (SSTR3), tRNA, ESTs,	2.1	CALU6_cells, A549_cells, Lu_SC_H345
130303			H saplens (clone S164) mRNA; 3' end of c	2.1	PC3_cells, DU145_cells, LNCaP_cells
	AA461080 AA279439			2.1 2.1	HT29_cells, BT474_cells, MB231_cells EB_cells, Lu_SC_H345, LNCaP_cells
	R69088	Hs.28728	ESTs; Weakly similar to misato [D.melano ESTs; Weakly similar to F55A12.9 [C.eleg	2.1	HT29_cells, BT474_cells, MB231_cells
	F10720	Hs.180804		2.1	HS578T_cells, HT29_cells, HT29_cells
	H40359	Hs.177256		2.09	MCF7, A549_cells, MB-MDA-435s
	H17490	Hs.7905	ESTs; Highly similar to sorting nexin 9	2.09	EB_cells, Fibroblasts 2, HS578T_cells
133002	AF006082	Hs.62461		2.09	EB_cells, HS578T_cells, A549_cells
		Hs.94943	ESTs	2.09	Lu_SC_H345, PC3_cells, LNCaP_cells
	W93299	Hs.59363	ESTs; Weakly similar to cytokeratin 20 [2.09	HMEC (total RNA), HS578T_cells, HS578T_cells
	AA491208		ESTs	2.09	EB_cells, Lu_AD_H23, Lu_SC_H69
105415	AA243768		ESTs; Highly similar to match to ESTs Z4	2.09	LNCaP_cells, Lu_AD_H23, MB-MDA-453
110607	D80354	Hs.256321		2.09	LNCaP_cells, DU145_cells, RPWE_2
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.09 2.09	MB231_cells, HT29_cells, HMEC PC3_cells, HS578T_cells, DU145_cells
	U30999 T96077	Hs.10247 Hs.17738	activated leucocyte cell adhesion molecu EST	2.09	Lu_AD_H23, Lu_AD_H23, Lu_SQ_H520
101183		Hs.795	H2A histone family; member O	2.09	LNCaP_cells, MCF7, OVCAR_cells
	R49025	Hs.22996	ESTs	2.09	Lu_AD_H23, Lu_AD_358, Lu_SC_H69
		Hs.87968		2.08	BT474_cells, MB231_cells, HT29_cells
	F04432	Hs.17904	ESTs	2.08	EB_cells, DU145_cells, PC3_cells
	F02475	Hs.26370		2.08	Lu_AD_H23, Lu_SQ_H520, Lu_LC_H460
133740	U68142		RAB2; member RAS oncogene family-like	2.08	LNCaP_cells, MB-MDA-453, EB_cells
126716	AA031700	Hs.251962	ESTs	2.08	HS578T_cells, Fibroblasts 2, Lu_SC_H69
	F10904	Hs.100516	H sapiens done 23605 mRNA seq	2.08	Lu_SC_H345, OVCAR_cells, DU145_cells
	T66813	Hs.12947	EST	2.08	EB_cells, Lu_SC_H69, Lu_AD_H23
	W95068	Hs.59621	ESTs	2.08	HS578T_cells, A549_cells, CALU6_cells
	U08471	Hs.352	folate receptor 3 (gamma)	2.08	EB_cells, Lu_AD_H23, Lu_AD_358
108/12	AA121993		zm24d11.s1 Stratagene pancreas (#93728)	AC	2.08 Lu_SQ_H520, HT29_cells, BT474_cells
13//52	X70683	Hs.83484	similar to gb:Y433 GLUTATHIONE PEROXID	2.08	EB_cells, Lu_SC_H345, Lu_SC_H69
		Hs.87363		2.08	HT29_cells, 293T_cells, 293T_cells
		Hs.16930		2.08	DU145_cells, MB-MDA-435s, HS578T_cells
	T96148	Hs.17762		2.08	EB_cells, Lu_SQ_H520, Fibroblasts 2
		Hs.104223		2.08	293T_cells, CALU6_cells, A549_cells
			double-stranded RNA-binding zinc finger	2.08	293T_cells, PC3_cells, OVCAR_cells
					2001_0000, 1 00_0000, 0 1000 _0000
104949	AA070735	Hs.146090	ESTs	2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2
118751	N74210	Hs.146090 Hs.50454	EST	2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
118751 112399	N74210 R60920	Hs.146090 Hs.50454 Hs.26419	EST H sapiens clone 24510 mRNA seq	2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_cells, Lu_AD_H23, Lu_SC_H69
118751 112399 129994	N74210 R60920 AA599443	Hs.146090 Hs.50454 Hs.26419 Hs.38194	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB	2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_cells, Lu_AD_H23, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells
118751 112399 129994 116402	N74210 R60920 AA599443 AA600054	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs	2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_cells, Lu_AD_H23, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23
118751 112399 129994 116402 125307	N74210 R60920 AA599443 AA600054 Z40583	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs	2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_cells, Lu_AD_H23, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells
118751 112399 129994 116402 125307 105047	N74210 R60920 AA599443 AA600054 Z40583 AA132453	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Caco2, HT29_ceils, LNCaP_ceils
118751 112399 129994 116402 125307 105047 128659	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69
118751 112399 129994 116402 125307 105047 128659 122301	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Caco2, HT29_ceils, LNCaP_ceils
118751 112399 129994 116402 125307 105047 128659 122301 121974	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358
118751 112399 129994 116402 125307 105047 128659 122301 121974	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST EST EST ST EST E	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.98534	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Soares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con 293T_ceils, Lu_SC_H345, CALU6_ceils
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.98534 Hs.94769	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Soares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST EST; Moderately similar to RAS-RELATED	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, ET474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con 293T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils
118751 112399 129994 116402 125307 105047 12659 122301 121974 116905 106703 121908 135119 103558	N74210 R60920 AA599443 AA600054 Z40583 AA432453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229875 Hs.21264 Hs.98534 Hs.94769 Hs.2785	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys&c12.s1 Soares fetal liver spieen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST EST; Moderately similar to RAS-RELATED keratin 17	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, EB_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells EB_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Caco2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Caco2, PRSC_con E933T_cells, Caco2, PRSC_con, OVCAR_cells HS578T_cells, PRSC_con, OVCAR_cells RS578T_cells, PRSC_con, OVCAR_cells RS578T_cells, PRSC_con, OVCAR_cells RS578T_cells, PRSC_con, OVCAR_cells
118751 112399 129994 116402 125307 12659 122301 121974 116905 106703 121908 135119 103558 124209	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229675 Hs.21264 Hs.94769 Hs.2785 Hs.193433	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Soares fetal liver spieen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, Lu_AD_H23, Lu_SC_H69 DU145_cells, BE_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Caco2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Caco2, PRSC_con 293T_cells, Lu_SC_H345, CALU6_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.94769 Hs.2785 Hs.193433 Hs.77719	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST EST ST EST ST S	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con 293T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RS578T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_ceils, 293T_ceils Fibroblasts 2, MB-MDA-453, PRSC_con
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST EST ST S	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, Lu_AD_H23, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Cacc2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Cacc2, PRSC_con 293T_cells, Lu_SC_H345, CALU6_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.94769 Hs.2785 Hs.193433 Hs.77719	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Scares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs ESTs; Highly similar to ubiquitin-conjug EST	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con 293T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RS578T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_ceils, 293T_ceils Fibroblasts 2, MB-MDA-453, PRSC_con
118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Soares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs gamma-glutamyl carboxylase ESTs; Highly similar to ublquitin-conjug EST zx39b05.r1 Soares_total_fetus_Nb2HF8_9w	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, Lu_AD_H23, Lu_SC_H69 DU145_cells, BE_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Cacc2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Cacc2, PRSC_con 293T_cells, Lu_SC_H345, CALU6_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells
118751 112399 12994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230 127378	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134 AA452696	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys&c12.s1 Soares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs gamma-glutamyl carboxylase ESTs; Highly similar to ubiquitin-conjug EST zx39b05.r1 Soares_total_fetus_Nb2HF8_9w to contains Alu repetitive element;cont	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, EB_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Caco2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Caco2, PRSC_con EB_cells, Caco2, PRSC_con OVCAR_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
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118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230 127378	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134 AA452696 H53013 X07619	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229875 Hs.24264 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913 Hs.105308	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST y8612.s1 Soares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST EST; Moderately similar to RAS-RELATED keratin 17 ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs gamma-glutamyl carboxylase ESTs; Highly similar to ublquitin-conjug EST zx3905.r1 Soares_total_fetus_Nb2HF8_9w to contains Alu repetitive element;cont ESTs Cytochrome P450; subfamily IID (debrisoq polypeptide 7a (pseudogene)	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con 293T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, MB-MDA-453, PRSC_con EB_ceils, LNCaP_ceils, 293T_ceils Fibroblasts 2, MB-MDA-453, PRSC_con EB_ceils, LNCaP_ceils, LNCaP_ceils Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 HS578T_ceils, LNCaP_ceils, EB_ceils Fibroblasts 2, Lu_SC_H590, Lu_SC_H520 Lu_AD_H23, Lu_SC_H690, Lu_AD_358
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118751 112399 129994 116402 125307 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230 127378 110464 135191 101267 105185	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134 AA452696 H53013 X07619 L36818 AA191495	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229875 Hs.229875 Hs.21264 Hs.98534 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913 Hs.105308 Hs.221901 Hs.169876 Hs.75339 Hs.189937	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Soares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs gamma-glutamyl carboxylase ESTs; Highly similar to ublquitin-conjug EST zx39b05.r1 Soares_total_fetus_Nb2HF8_9w to contains Alu repetitive element;cont ESTs cytochrome P450; subfamily IID (debrisoq polypeptide 7a (pseudogene) lnositol polyphosphate phosphatase-like ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Caco2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Caco2, PRSC_con 293T_cells, Lu_SC_H345, CALU6_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells Fibroblasts 2, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, EB_cells Fibroblasts 2, Lu_SC_H69, Lu_SC_H520 Lu_AD_H23, Lu_SC_H69, Lu_SC_H520 Lu_AD_H23, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, OVCAR_cells, Caco2 Lu_SC_H69, Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
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118751 112399 129994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135158 124209 133936 116246 123230 127378 110464 135191 101267 105185 125366 117472	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134 AA452696 H53013 X07619 L36818 AA191495 H60192 N30131	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.21264 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913 Hs.105308 Hs.221901 Hs.169876 Hs.75339 Hs.169876 Hs.75339 Hs.189937 Hs.76853 Hs.93738	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST EST EST EST ST S	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con 293T_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_ceils, 293T_ceils Fibroblasts 2, MB-MDA-453, PRSC_con EB_ceils, LNCaP_ceils, LNCaP_ceils Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 HS578T_ceils, LNCaP_ceils, EB_ceils Fibroblasts 2, Lu_SQ_H520, Lu_SQ_H520 Lu_AD_H23, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, OVCAR_ceils, Cacc2 Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 DU145_ceils, Lu_CC_H60, Lu_AD_358 EB_ceils, Lu_SC_H69, 293T_ceils
118751 112399 129994 116402 125307 125307 121974 116905 106703 121908 135119 103558 124208 13936 116246 123230 127378 110464 135191 101267 105185 125366 117472 114235	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134 AA452696 H53013 X07619 L36818 AA191495 H60192 N30131 Z39710	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229875 Hs.242901 Hs.42913 Hs.105308 Hs.77719 Hs.42913 Hs.105308 Hs.75339 Hs.169876 Hs.75339 Hs.169876 Hs.75339 Hs.189937 Hs.76853 Hs.993738 Hs.993738	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST EST ST S	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 EB_ceils, Lu_AD_H23, Lu_SC_H69 DU145_ceils, EB_ceils, HS578T_ceils HT29_ceils, BT474_ceils, Lu_AD_H23 HMEC, HMEC (total RNA), EB_ceils Cacc2, HT29_ceils, LNCaP_ceils EB_ceils, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_ceils, 293T_ceils, OVCAR_ceils Lu_AD_H23, EB_ceils, PRSC_con EB_ceils, Cacc2, PRSC_con EB_ceils, Cacc2, PRSC_con EB_ceils, Cacc2, PRSC_con EB_ceils, Cacc2, PRSC_con EB_ceils, Lu_SC_H345, CALU6_ceils HS578T_ceils, PRSC_con, OVCAR_ceils RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_ceils, 293T_ceils Fibroblasts 2, MB-MDA-453, PRSC_con EB_ceils, LNCaP_ceils, LNCaP_ceils Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 HS578T_ceils, LNCaP_ceils, EB_ceils Fibroblasts 2, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, OVCAR_ceils, Cacc2 Lu_SC_H69, Lu_AD_H23, Lu_SC_H345 DU145_ceils, Lu_SC_H69, P337_ceils DU145_ceils, Lu_SC_H69, P337_ceils DU145_ceils, LU_SC_H69, P337_ceils DU145_ceils, BT474_ceils, Lu_SC_H69
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118751 112399 129994 116402 125307 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230 127378 110464 135191 101267 105185 125366 117472 114235 109081 1142596	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T23992 Z19574 H57317 AA045083 AA479961 AA490134 AA452696 H53013 X07619 L36818 AA191495 H60192 N30131 Z39710 AA165268 R78212	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229875 Hs.22164 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913 Hs.105308 Hs.221901 Hs.169876 Hs.75339 Hs.169876 Hs.75339 Hs.189937 Hs.76853 Hs.93738 Hs.93738 Hs.93738 Hs.93738	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to !!!! ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Scares fetal liver spleen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs ESTs; Highly similar to ubiquitin-conjug EST zx39b05.r1 Soares_total_fetus_Nb2HF8_9w to contains Alu repetitive element;cont ESTs cytochrome P450; subfamily IID (debrisoq polypeptide 7a (pseudogene) inositol polyphosphate phosphatase-like ESTs ESTs ESTs; Wealdy similar to human homolog of DKFZP434M098 protein ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Caco2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Caco2, PRSC_con 293T_cells, PRSC_con 293T_cells, Lu_SC_H345, CALU6_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells Fibroblasts 2, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, EB_cells Fibroblasts 2, Lu_SC_H69, Lu_SC_H345 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 Lu_AD_H23, Lu_SC_H69, Lu_SC_H345 DU145_cells, LV_LC_H660, Lu_AD_358 EB_cells, Lu_SC_H69, 293T_cells DU145_cells, Lu_LC_H460, Lu_AD_358 EB_cells, Lu_SC_H69, 293T_cells DU145_cells, Lu_SC_H69, 293T_cells DU145_cells, Lu_SC_H69, 293T_cells DU145_cells, Lu_SC_H69, 293T_cells DU145_cells, BT474_cells, Lu_SC_H69 Lu_SC_H69, Lu_SC_H345, PC3_cells MB-MDA-435s, Lu_SC_H345, PC3_cells
118751 112399 12994 116402 125307 105047 128659 122301 121974 116905 106703 121908 135119 103558 124209 133936 116246 123230 127378 110464 135191 101267 105185 125366 117472 114235 109254	N74210 R60920 AA599443 AA600054 Z40583 AA132453 T95280 AA437378 AA429804 H71420 AA463979 AA427858 T219574 H57317 AA045083 AA479961 AA490134 AA490134 AA452696 H53013 X07619 L36818 AA191495 H60192 N30131 Z39710 AA165268 R78212 AA194940	Hs.146090 Hs.50454 Hs.26419 Hs.38194 Hs.65302 Hs.101259 Hs.15396 Hs.103315 Hs.98791 Hs.229875 Hs.229875 Hs.228534 Hs.94769 Hs.2785 Hs.193433 Hs.77719 Hs.42913 Hs.105308 Hs.221901 Hs.169876 Hs.75339 Hs.189937 Hs.189937 Hs.189937 Hs.189937 Hs.189937 Hs.25341 Hs.72488 Hs.163705 Hs.85956	EST H sapiens clone 24510 mRNA seq ESTs; Moderately similar to IIII ALU SUB ESTs ESTs ESTs ESTs trinucleotide repeat containing 1 ESTs EST ys8c12.s1 Soares fetal liver spieen 1NFL 3' similar to contains Alu repetitive e KIAA0782 protein EST ESTs; Moderately similar to RAS-RELATED keratin 17 ESTs gamma-glutamyl carboxylase ESTs; Highly similar to ubiquitin-conjug EST zx39b05.r1 Soares_total_fetus_Nb2HF8_9w to contains Alu repetitive element/cont ESTs cytochrome P450; subfamily IID (debrisod polypeptide 7a (pseudogene) inositol polyphosphate phosphatase-like ESTs ESTs; Wealdy similar to human homolog of DKFZP434M098 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2 Lu_AD_H23, Lu_SC_H69, Lu_SC_H69 DU145_cells, EB_cells, HS578T_cells HT29_cells, BE_cells, HS578T_cells HT29_cells, BT474_cells, Lu_AD_H23 HMEC, HMEC (total RNA), EB_cells Cacc2, HT29_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_SC_H69 Lu_SC_H345, Lu_AD_H23, Lu_AD_358 HS578T_cells, 293T_cells, OVCAR_cells Lu_AD_H23, EB_cells, PRSC_con EB_cells, Cacc2, PRSC_con 293T_cells, Lu_SC_H345, CALU6_cells HS578T_cells, PRSC_con, OVCAR_cells RPWE_2, HMEC (total RNA), HMEC Fibroblasts 2, OVCAR_cells, 293T_cells Fibroblasts 2, MB-MDA-453, PRSC_con EB_cells, LNCaP_cells, LNCaP_cells HS578T_cells, LNCaP_cells, EB_cells Fibroblasts 2, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, EB_cells Fibroblasts 2, Lu_SC_H69, Lu_SC_H345 Lu_SC_H345, OVCAR_cells, Cacc2 Lu_SC_H345, OVCAR_cells, Cacc2 Lu_SC_H345, Lu_SC_H69, Lu_AD_358 Lu_SC_H345, Lu_LC_H460, Lu_AD_358 EB_cells, Lu_SC_H69, 293T_cells DU145_cells, Lu_LC_H460, Lu_AD_358 EB_cells, Lu_SC_H69, Lu_SC_H69 Lu_SC_H69, Lu_SC_H345, PC3_cells MB-MDA-435s, Lu_SC_H520, MB-MDA-453 HS578T_cells, 293T_cells, OVCAR_cells
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122520	AA449828	He 00220	ESTs	2.06	DU145_cells, HS578T_cells, 293T_cells
	R99199		transducin-like enhancer of split 2; hom	2.06	MB-MDA-435s, 293T_ceils, 293T_ceils
	AA621650		ESTs; Weakly similar to KIAA0734 protein	2.06	MB231_cells, HT29_cells, Lu_AD_358
	AA488414		hect (homologous to the E6-AP (UBE3A) ca	2.00	111201_00101, 11120_00101, C0_100_000
	741100111	110.10121	domain (RLD) 1	2.06	DU145_cells, CALU6_cells, PC3_cells
126752	AI073373	Hs.183275		2.06	LNCaP_cells, EB_cells, DU145_cells
	N80749		ESTs; Weakly similar to predicted using	2.06	CALU6_cells, PRSC_log, OVCAR_cells
	R77869	Hs.28506	ESTs	2.06	EB_cells, BT474_cells, Lu_AD_H23
	AA252028	Hs.39168	ESTs	2.06	Lu_SQ_H520, Fibroblasts 2, EB_cells
	T67231		succinate dehydrogenase complex; subunit	2.06	Caco2, LNCaP_cells, EB_cells
	L35545	Hs.82353	endothelial cell protein C/activated pro	2.06	EB_cells, RPWE_2, DU145_cells
	AA281951		H sapiens mRNA; cDNA DKFZp566J2146 (fr		2.06 OVCAR_cells, LNCaP_cells, DU145_cells
	N26536	Hs.84999	ATPase; Cu++ transporting; beta polypept	2.06	Caco2, Caco2, 293T_cells
	AA303711			2.06	HT29_cells, HMEC (total RNA), HMEC
119403	T92935	Hs.119908	ESTs; Highly similar to nucleolar protei	2.06	HMEC, EB_cells, HMEC (total RNA)
125755	R66080		H saplens mRNA; cDNA DKFZp434N174 (fro	m	2.06 LNCaP_cells, DU145_cells, OVCAR_cells
101843	M93405		methylmalonate-semialdehyde dehydrogenas		LNCaP_cells, MB-MDA-453, EB_cells
113032	T24024	Hs.7387	DKFZP564B116 protein	2.05	EB_cells, A549_cells, A549_cells
112563	R72632	Hs.29282	ESTs	2.05	MCF7, HS578T_cells, PRSC_con
126432	AA583825	Hs.235860	ESTs	2.05	MB231_cells, HT29_cells, Fibroblasts 2
101636	M57763	Hs.89474	ADP-ribosylation factor 6	2.05	DU145_cells, LNCaP_cells, PC3_cells
125174	W51835	Hs.231082		2.05	EB_cells, Fibroblasts 2, Lu_AD_H23
106168	AA425943	Hs.82208	acyl-Coenzyme A dehydrogenase; very long	2.05	OVCAR_cells, PC3_cells, EB_cells
	AA236796		follistatin	2.05	HMEC (total RNA), PC3_cells, HMEC
	AA227956		follistatin-like 3 (secreted glycoprotei	2.05	HMEC, RPWE_2, HMEC (total RNA)
			ESTs; Weakly similar to CGI-128 protein	2.05	EB_cells, CALU6_cells, A549_cells
	AA417012		ESTs	2.05	HS578T_cells, EB_cells, Lu_SC_H345
	R72637	Hs.26343	ESTs	2.05	EB_cells, Lu_SC_H69, Lu_AD_H23
	R08260	Hs.20131	ESTs	2.05	Lu_AD_H23, Lu_SC_H69, BT474_cells
	T79840	Hs.111798		2.05	HT29_cells, Lu_AD_H23, Lu_SC_H345
			H saptens mRNA; cDNA DKFZp564M0264 (fi		2.05 DU145_cells, CALU6_cells, PC3_cells
	AA449789		connective tissue growth factor	2.05	HS578T_cells, PRSC_log, PRSC_con
	AA740921		heat shock 10kD protein 1 (chaperonin 10	2.05	DU145_cells, LNCaP_cells, OVCAR_cells
	AA196287		ESTs; Moderately similar to IIII ALU SUB	2.05	EB_cells, MB-MDA-453, Fibroblasts 2
	AA290987		ESTs; Weakly similar to contains similar	2.04	Lu_AD_358, Lu_SQ_H520, Lu_LC_H460
	X60655	Hs.99967	even-skipped homeo box 1 (homolog of Dro	2.04	Lu_AD_H23, RPWE_2, Lu_SQ_H520
			DKFZP434A033 protein	2.04	293T_cells, HS578T_cells, LNCaP_cells
	M97287	Hs.74592	special AT-rich seq binding protein 1 (b	2.04	EB_cells, Lu_SC_H69, 293T_cells
	M22490	Hs.68879	bone morphogenetic protein 4	2.04	PRSC_con, HT29_cells, MB231_cells
	T95005	Hs.209587		2.04	293T_cells, MB-MDA-435s, Lu_SC_H69
	W88946 AA262417	Hs.18508	putative glycine-N-acyttransferase	2.04	HT29_cells, Fibroblasts 2, MB-MDA-435s
	N63706		ESTS	2.04 2.04	DU145_cells, OVCAR_cells, PC3_cells Cacc2, 293T_cells, DU145_cells
	AA482069	Hs.104573		2.04	Lu_AD_358, HT29_cells, HT29_cells
	AA232857		ESTs	2.04	DU145_cells, Lu_AD_H23, LNCaP_cells
	AA610116		tetraspan NET-6 protein	2.04	BT474_cells, Caco2, LNCaP_cells
	AA935809			2.04	BT474_ceils, MB-MDA-435s, MB-MDA-453
	R73427	Hs.235712		2.04	Caco2, OVCAR_cells, MCF7
	T93263		ESTs; Weakly similar to hypothetical pro	2.04	EB_cells, Lu_SC_H345, PRSC_con
	AA460270	Hs.27695	midline 1 (Opitz/BBB syndrome)	2.04	A549_cells, 293T_cells, Caco2
	Z21124		HSAAADNVE TEST1, Human adult Testis tiss		Fibroblasts 2, Fibroblasts 2, MCF7
	R00841	Hs.172069	DKFZP434C212 protein	2.04	HT29_cells, Lu_SQ_H520, BT474_cells
	T19477		A1426R Heart H sapiens cDNA clone A1426,		EB_cells, Lu_AD_H23, Lu_SC_H69
125244	W86466	Hs.132756	ESTs; Weakly similar to KIAA0591 protein	2.04	EB_cells, Lu_AD_H23, Lu_LC_H460
	M91036		hemoglobin; gamma G	2.04	MB231_cells, Lu_AD_358, HT29_cells
119564	W38206		Accession not listed in Genbank	2.04	BT474_cells, HT29_cells, Lu_AD_H23
132523	AB002332	Hs.50722	clock (mouse) homolog	2.04	PC3_cells, OVCAR_cells, PRSC_log
	Al337031	Hs.180195		2.04	293T_cells, MB-MDA-435s, A549_cells
126471	AA158755	Hs.175652	ESTs; Weakly similar to IIII ALU SUBFAMI	2.04	EB_cells, Lu_AD_358, Lu_LC_H460
	N45120		ESTs	2.03	Lu_AD_H23, RPWE_2, Lu_LC_H460
122317	AA442742	Hs.8693	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.03	EB_ceils, Fibroblasts 2, Lu_SC_H345
	D38024	Hs.247951	Humn facioscapulohumeral muscular dystro	2.03	Lu_AD_H23, Lu_AD_358, Lu_SQ_H520
	AA236884	Hs.247323	H saplens mRNA for G4 protein (G4 gene;	2.03	Lu_SC_H69, EB_cells, Lu_SC_H345
	AA447638	Hs.104977	ESTs	2.03	Lu_SC_H345, Lu_SC_H345, Lu_SQ_H520
	J00148		Accession not listed in Genbank	2.03	HT29_cells, BT474_cells, HMEC
	W86389	Hs.21122	ESTs; Moderately similar to KIAA0438 [H.	2.03	293T_cells, Lu_SC_H345, OVCAR_cells
	U67849		Human beta-galactoside alpha2,6-slalyltr	2.03	HT29_cells, 293T_cells, Lu_SC_H345
	AA398510			2.03	EB_cells, Lu_SC_H345, Lu_SC_H69
	AA190906	Hs.204692	ESTS	2.03	Lu_SQ_H520, Lu_SC_H345, Lu_SC_H69
	U62962		eukaryotic translation initiation factor	2.03	EB_cells, DU145_cells, MCF7
	N51702	Hs.101392		2.03	HT29_cells, Fibroblasts 2, HMEC (total RNA)
	AA076672			2.03	Cacco2, LNCaP_cells, EB_cells CALU6_cells, CALU6_cells, A549_cells
	H30667	Hs.7535	ESTs; Highly similar to COBW-like placen	2.03	MB231_cells, GALU6_cells, A549_cells MB231_cells, BT474_cells, Fibroblasts 2
			ESTs; Moderately similar to cAMP inducib	2.03	MB231_cells, MB-MDA-435s, Lu_AD_H23
	W05348		DKFZP434B103 protein ATPase; Na+/K+ transporting; alpha 3 pol	2.03 2.03	MB-MDA-453, Lu_SQ_H520, Lu_AD_358
100000	.4420101	110.1000 <i>1</i> 1	Arr ase, readily nansporting; aipha 3 pol	2.00	HINTER THE THE THE THE THE TOTAL .

129	1794	AA447772	Hs.14520	eukaryotic translation initiation factor	2.03	EB_ceils, Lu_AD_358, Lu_AD_H23
115	664	AA405974	Hs.54673	tumor necrosis factor (Ilgand) superfami	2.03	Lu_AD_358, HT29_cells, HT29_cells
119	1096	R41672	Hs.91471	ATPase type IV; phospholipid transportin	2.03	HT29_ceils, MB231_ceils, BT474_ceils
133	866	L36151	Hs.171625	phosphatidylinositol 4-kinase; catalytic	2.03	293T_cells, DU145_cells, LNCaP_cells
132	055	N69440	Hs.38132		2.03	Lu_SC_H345, MB-MDA-453, MB-MDA-435s
125	691	A1034361		lung type-I cell membrane-associated gly	2.03	Lu_SC_H345, LNCaP_cells, DU145_cells
				ESTs; Moderately similar to SODIUM- AND		
				TRANSPORTER 2 [H.sapiens]	2.03	LNCaP_cells, HT29_cells, RPWE_2
105	289	AA233178	Hs.103000	KIAA0831 protein	2.02	PC3 cells, Lu AD_H23, MB231_cells
100	967	J02621		high-mobility group (nonhistone chromoso	2.02	MCF7, DU145_cells, OVCAR_cells
		N38913	Hs.221575		2.02	MB-MDA-435s, Fibroblasts 2, EB_cells
			Hs.133296		2.02	HT29_cells, MB-MDA-435s, Lu_SC_H345
		X91809		G alpha interacting protein	2.02	Lu_AD_H23, RPWE_2, MCF7
		AA040923	He 92200	KIAA0480 gene product	2.02	MCF7, Fibroblasts 2, DU145_cells
			Hs.46783		2.02	DU145_cells, PC3_cells, OVCAR_cells
			Hs.87131		2.02	HT29_cells, MB-MDA-435s, Lu_SC_H69
		R00144			2.02	HT29_cells, Fibroblasts 2, HMEC
			Hs.189771		2.02	
		N32495	Hs.151560			HT29_cells, HMEC (total RNA), Fibroblasts 2
				ESTs; Weakly similar to IIII ALU CLASS C	2.02	MCF7, Fibroblasts 2, LNCaP_cells
		N39306	Hs.20237	DKFZP566C134 protein	2.02	EB_cells, Lu_AD_H23, Lu_LC_H460
				ESTs; Moderately similar to !!!! ALU SUB	2.02	CALU6_cells, 293T_cells, PRSC_log
			Hs.4310	eukaryotic translation initiation factor	2.02	293T_cells, PC3_cells, EB_cells
		R42362	Hs.91785	ESTs	2.02	CALU6_ceils, MB-MDA-453, PC3_ceils
111	370	N92915	Hs.94631	brefeldin A-inhibited guanine nucleotide	2.02	EB_cells, OVCAR_cells, LNCaP_cells
125	013	T67261	Hs.154431	ESTs; Weakly similar to neuronal thread	2.02	Lu_SC_H345, Lu_SC_H69, PRSC_con
129	762	AA460273	Hs.12372	KIAA0517 protein	2.02	EB_cells, MB-MDA-435s, OVCAR_cells
120	704	AA291970	Hs.107054	KIAAQ821 protein	2.01	Lu_SC_H69, EB_cells, MB-MDA-453
105	355	AA235985	Hs.26938	Human DNA seg from clone 126A5 on chromo)	
				genes (one with DnaJ domains); the gene		
				family member HKR3. Contains ESTs; STSs;	2.01	Lu AD H23, Lu_LC_H460, Lu_SQ_H520
125	952	AA017723		small inducible cytokine A5 (RANTES)	2.01	LNCaP_cells, DU145_cells, MB231_cells
		Y07755	Hs.38991	S100 calcium-binding protein A2	2.01	HMEC (total RNA), HMEC, RPWE_2
		T33873	Hs.74624	protein tyrosine phosphatase; receptor t	2.01	Lu_SC_H345, BT474_cells, HT29_cells
		R93237		yq11e10.s1 Soares fetal liver spleen 1NF		
				IMAGE:196650 3', mRNA seq.	2.01	PC3_cells, LNCaP_cells, OVCAR_cells
118	513	N67504	Hs.40061	ESTs	2.01	Lu_SC_H345, Lu_SC_H69, PRSC_con
			Hs.238476		2.01	EB_cells, Lu_AD_H23, Lu_SC_H345
		AA769520	113.200770	ESTs; Weakly similar to REGULATOR OF MI		2.01 HS578T_cells, CALU6_cells,
	SQ I			ESTS, VIBARY SITTINGS TO TELESCOPTION OF THE	•	201 1100101_00001 01100_00001
		R36969	Hs.18888	ESTs	2.01	Lu_AD_H23, Lu_AD_358, Lu_SQ_H520
		D28383	113.10000	Human mRNA for ATP synthase B chain, 5'U		EB_cells, Lu_AD_H23, LNCaP_cells
			He 10///3	ESTs; Weakly similar to BC37295_2 [H.sap	2.01	Lu_SC_H345, Lu_SC_H69, DU145_cells
			Hs.20558		2.01	EB_cells, Lu_AD_H23, Lu_LC_H460
			HS.20000	ESTS	2.01	EB_08113, E0_AD_1723, E0_E0_17400
1 14	030	AA085374		zn13d5.s1 Stratagene hNT neuron (#937233	/DEDT!	2.01 EB_cells, CALU6_cells, OVCAR_cells
400	040	1104505	Un 404077	gb:L8441 CYTOCHROME C OXIDASE POLY		
		H21585		ESTs; Moderately similar to ATP binding	2.01	EB_cells, HS578T_cells, PC3_cells
			Hs.16773		2.01	EB_cells, DU145_cells, 293T_cells
		AA450118		ESTs; Weakly similar to ZINC FINGER PROT		OVCAR_cells, LNCaP_cells, EB_cells
		T33128	Hs.7966	ESTs	2	Lu_SC_H345, Fibroblasts 2, Lu_AD_H23
		N22289		yw36g08.s1 Morton Fetal Cochlea H sapien	2	MB-MDA-453, OVCAR_cells, CALU6_cells
		U47635	Hs.79877	myotubularin related protein 6	2	EB_cells, PC3_cells, LNCaP_cells
				eukaryotic translation elongation factor	2	Lu_SC_H69, EB_cells, Lu_SC_H345
		R42569	Hs.22444		2	Lu_AD_H23, PRSC_log, Lu_AD_358
				ESTs; Weakly similar to PROLINE-RICH PRO		HT29_cells, RPWE_2, MB231_cells
130	356	X84373		nuclear receptor interacting protein 1	2	DU145_cells, PC3_cells, MCF7
		Z38153	Hs.26921	ESTs	2	293T_cells, MB-MDA-435s, HT29_cells
107	136	AA620795	Hs.8207	ESTs	2	LNCaP_cells, PC3_cells, EB_cells

Table 3

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex Accn	UG_ID	Complete_Title	Ratio BS/Met	Top 3 expressing cell lines
302347	AF039400	Hs.194659	chloride channel; calcium activated; fam	19.71	EB, NCI-H520, NCI-H23
	A1936587	Hs.221599		14.49	PRSC_con, RPWE-2, OVCA-R
339196			CH22_FF113D11.GENSCAN.3-1	10.37	NCHH69, PRSC_con, NCI-H345
336171			CH22_FGENES.708_3	9.45	NCI-H69, NCI-H460, NCI-H23
338895			CH22_DJ32I10.GENSCAN.9-2	9.31	PC3, BT474, OVCA-R
333625			CH22_FGENES.223_2	8.96	NCI-H69, PRSC_con, NCI-H345
333730	A A 2000022	Un 420770	CH22_FGENES.258_1	8.82	NCI-H69, BT474, MB-MDA-231
333643	AAZ309ZZ	MS. 129//0	gastrointestinal peptide CH22_FGENES.232_2	8.22 7.66	BT474, CALU6, DU145 MCF7, NCI-H69, LnCap
333423			CH22_FGENES.147_3	7.57	HT29, MB-MDA-231, EB
	A1833168	He 184507	H saplens Chromosome 16 BAC clone CIT98		7.55 MB-MDA-231, HT29, MB-MDA-453
333588	711000100	. 10. 10 1001	CH22_FGENES.206_2	7.46	HT29, OVCA-R, BT474
	AL137507		EST cluster (not in UniGene)	7.35	PRSC_con, PRSC_log, NCI-H345
	AI719930		EST singleton (not in UniGene) with exon	6.83	PC3, DU145, DU145
339044			CH22_DA59H18.GENSCAN.27-5	6.46	NCI-H69, NCI-H345, PRSC_log
314516	AA371513	Hs.231748	ESTs	6.41	EB, OVCA-R, Ca∞2
327805			CH.05_hs gi 5867968	6.28	NCI-H69, NCI-H345, PRSC_con
334239			CH22_FGENES.364_2	6.09	NCI-H520, MB-MDA-435s, MB-MDA-453
332958			CH22_FGENES.48_15	6.04	NCI-H69, PRSC_con, PRSC_log
	W85772	Hs.173924		5.88	MB-MDA-231, OVCA-R, BT474
	AL037927	Hs.190675	ESTs; Moderately similar to IIII ALU SUB	5.84	OVCA-R, CALU6, EB
337170			CH22_FGENES.564-1	5.67	LnCap, CALU6, NCI-H69
337503			CH22_FGENES.803-1	5.66	NCI-H345, PRSC_∞n, RPWE-2
337562			CH22_C65E1.GENSCAN.1-2	5.53 5.45	HT29, MB-MDA-453, BT474
337219	AI679622	₩ c 22225	CH22_FGENES.614-3 immunoglobulin alpha 1	5.43	NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H23, NCI-H345
	AA713589	113.32223	EST cluster (not in UniGene)	5.41	PC3, EB, LnCap
336246	/// 10000		CH22_FGENES.746_5	5.34	NCI-H69, NCI-H345, PRSC_log
335009			CH22_FGENES.472_13	5.31	EB, EB, NCI-H69
339365			CH22_BA354I12.GENSCAN.34-1	5.25	PRSC_con, NCI-H69, PRSC_log
336088			CH22_FGENES.688_17	5.21	PRSC_con, Caco2, PRSC_log
334966			CH22_FGENES.465_36	5.16	DU145, BT474, MB-MDA-231
334666			CH22_FGENES.418_18	5.15	NCI-H69, NCI-H345, PRSC_log
316830	AW182106	Hs.127821	ESTs	5.12	NCI-H345, PRSC_con, PRSC_log
339413			CH22_DJ579N16.GENSCAN.5-8	5.06	NCI-H69, NCI-H345, PRSC_log
337951			CH22_EM:AC005500.GENSCAN.94-1	5.01	NCI-H345, NCI-H69, PRSC_con
330153			CH.21_p2 gi[4325335	5	PRSC_con, PRSC_log, NCI-H69
333987			CH22_FGENES.310_11	4.96	MB-MDA-231, MB-MDA-453, MB-MDA-453
334304			CH22_FGENES.373_7	4.96	OVCA-R, CALU6, NCI-H23
338990			CH22_DA59H18.GENSCAN.6-6	4.95	PRSC_log, PRSC_con, NCI-H69 MB-MDA-435s, OVCA-R, A549
333152 327049			CH22_FGENES.89_1 CH.21_hs gij6531965	4.89 4.87	PRSC_con, NCI-H345, PRSC_log
337225			CH22_FGENES.626-3	4.83	DU145, CALU6, EB
333496			CH22_FGENES.168_6	4.81	NCI-H69, NCI-H345, PRSC_con
334451			CH22_FGENES.387_11	4.79	RPWE-2, PRSC_con, NCI-H69
333594			CH22_FGENES.210_3	4.78	OVCA-R, PC3, HT29
333635			CH22_FGENES.228_2	4.78	NCI-H69, PRSC_log, PRSC_con
336796			CH22_FGENES.176-6	4.73	NCI-H69, NCI-H345, PRSC_log
333313			CH22_FGENES.138_5	4.72	NCI-H69, NCI-H345, PRSC_log
336833			CH22_FGENES.242-2	4.7	NCI-H345, NCI-H69, PRSC_con
336090			CH22_FGENES.689_2	4.7	NCI-H69, PRSC_con, PRSC_log
336645			CH22_FGENES.26-1	4.63	HT29, OVCA-R, DU145
334565			CH22_FGENES.405_5	4.62	NCI-H345, PRSC_log, RPWE-2
333242			CH22_FGENES.111_6 CH.17_hs qil5867277	4.56	NCI-H345, PRSC_log, PRSC_con OVCA-R, EB, DU145
326304 337445			CH.17_1IS 915007277 CH22_FGENES.769-4	4.48 4.47	RPWE-2, NCI-H69, PRSC_log
327413			CH.02_hs gij5867750	4.46	NCI-H69, PRSC_log, NCI-H345
327990			CH.06_hs gl 5868218	4.44	PRSC_con, PRSC_log, RPWE-2
	H38304	Hs.21782		4.43	PRSC_con, MB-MDA-231, HT29
	AI732489	Hs.136370		4.4	HT29, MB-MDA-231, NCI-358
328859			CH.07_hs gi[6381928	4,4	OVCA-R, BT474, A549
334476			CH22_FGENES.394_7	4.38	OVCA-R, PC3, EB
336092			CH22_FGENES.689_6	4.35	PRSC_con, Caco2, PRSC_log
333965			CH22_FGENES.305_3	4.35	NCI-H69, NCI-H345, PRSC_log

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336402			CH22_FGENES.823_17	4.34	RPWE-2, HT29, OVCA-R
337947			CH22_EM:AC005500.GENSCAN.90-5	4.33	OVCA-R, DU145, PC3
337504			CH22_FGENES.803-2	4.33	NCI-H345, PRSC_con, PRSC_log
336813			CH22_FGENES.213-6	4.33	DU145, HT29, OVCA-R
338069			CH22_EM:AC005500.GENSCAN.166-14	4.33	NCI-H69, PRSC_con, NCI-H345
	N28625	Hs.74034	caveolin 1; caveolae protein; 22kD	4.31	PC3, A549, BT474
333631			CH22_FGENES.227_2	4.3	OVCA-R, PRSC_con, LnCap
	M14268		EST	4.27	PRSC_con, PRSC_log, RPWE-2
336049			CH22_FGENES.681_2	4.26	HT29, DU145, DU145
335667			CH22_FGENES.590_18	4.25	NCI-H520, Caco2, MB-MDA-453
	Y13323	Hs.145296	disintegrin protease	4.25	MB-MDA-231, DU145, BT474
	AA430373		EST singleton (not in UniGene) with exon	4.22	NCI-358, NCI-H460, NCI-H23
327273			CH.01_hs gij5867466	4.22	NCI-H69, NCI-H345, PRSC_con
334540			CH22_FGENES.403_5	4.17	NCI-H69, NCI-H345, PRSC_log
334719			CH22_FGENES.421_30	4.17	NCI-H69, NCI-H345, RPWE-2
327827			CH.05_hs gij5867968	4.17	OVCA-R, NCI-H69, CALU6
333599			CH22_FGENES.212_2	4.17	PRSC_log, NCHH69, PRSC_con
329638			CH.12_p2 gi[3779004	4.16	DU145, MB-MDA-231, HT29
	AI281651		EST singleton (not in UniGene) with exon	4.16	BT474, HT29, CALU6
336836			CH22_FGENES.247-11	4.15	PRSC_con, NCI-H345, NCI-H69
	AL121180	Hs.240038		4.14	NCI-H345, MB-MDA-435s, RPWE-2
336397			CH22_FGENES.823_12	4.13	NCI-H345, PRSC_con, RPWE-2
	AA736429		EST cluster (not in UniGene)	4.13	NCI-H69, PRSC_con, NCI-H345
	A1304386	Hs.150836		4.11	NCI-H345, PRSC_con, PRSC_log
335832			CH22_FGENES.620_6	4.08	NCI-H69, NCI-H345, PRSC_log
	Al631655	Hs.197919		4.07	NCI-358, NCI-H23, PRSC_con
323164	AA765301	Hs.151858	ESTs	4.06	NCI-H23, A549, HT29
315871	AW135312	Hs.117237		4.05	MB-MDA-231, EB, MCF7
337452			CH22_FGENES.775-1	4.02	PRSC_con, PRSC_log, NCI-H345
335265			CH22_FGENES.521_1	4.01	NCI-H69, MCF7, RPWE-2
335200			CH22_FGENES.508_9	4.01	NCI-H69, PRSC_log, PRSC_con
336917			CH22_FGENES.346-4	3.99	PRSC_con, NCI-H345, PRSC_log
336584			CH22_FGENES.847_1	3.98	PRSC_log, PRSC_con, RPWE-2
333382			CH22_FGENES.143_21	3.97	EB, A549, HT29
329436			CH.Y_hs gi 5868883	3.97	BT474, PC3, HT29
336929			CH22_FGENES.349-3	3.94	NCI-H69, NCI-H345, PRSC_log
337238			CH22_FGENES.641-3	3.92	NCI-H69, NCI-H345, PRSC_log
333875			CH22_FGENES.291_11	3.92	PRSC_con, RPWE-2, PRSC_log
337069			CH22_FGENES.448-2	3.9	NCI-H69, LnCap, RPWE-2
332491	M24470	Hs.1435	guanosine monophosphate reductase	3.86	OVCA-R, MB-MDA-435s, CALU6
304623	AA521331		EST singleton (not in UniGene) with exon	3.86	OVCA-R, DU145, PC3
335348			CH22_FGENES.537_4	3.85	HT29, MB-MDA-231, PC3
334568			CH22_FGENES.405_9	3.85	NCI-H69, NCI-H345, PRSC_log
336924			CH22_FGENES.347-9	3.84	NCI-H345, PRSC_log, RPWE-2
301654	H81795		EST	3.84	NCI-H520, LnCap, NCI-358
334677			CH22_FGENES.418_30	3.83	PRSC_con, NCI-H345, NCI-H69
326688			CH.20_hs gij5867582	3.83	NCI-H345, PRSC_con, PRSC_log
327790			CH.05_hs glj5867977	3.8	PRSC_con, PRSC_log, NCI-H345
334591			CH22_FGENES.408_1	3.8	NCI-H69, PRSC_log, NCI-H345
337974			CH22_EM:AC005500.GENSCAN.106-3	3.78	PRSC_log, PRSC_con, NCI-H345
311274	AW293128	Hs.197101		3.78	NCI-H345, PRSC_con, RPWE-2
326668			CH.20_hs gi]6552455	3.78	NCI-H345, NCI-H69, PRSC_log
304195	N35382		EST singleton (not in UniGene) with exon	3.77	NCI-H69, RPWE-2, PRSC_con
336294			CH22_FGENES.786_4	3.77	PRSC_con, PRSC_log, NCI-H69
311613	AL046311	Hs.252443	ESTs; Weakly similar to IIII ALU SUBFAMI	3.76	HT29, BT474, MB-MDA-231
338123			CH22_EM:AC005500.GENSCAN.195-5	3.75	MB-MDA-231, HT29, BT474
	AA558125		EST cluster (not in UniGene)	3.74	RPWE-2, PRSC_con, NCI-H345
303985	AW514501	Hs.156110	Immunoglobulin kappa variable 1D-8	3.73	MB-MDA-231, BT474, PRSC_∞n
336502			CH22_FGENES.833_8	3.72	NCI-H345, RPWE-2, PRSC_con
334063			CH22_FGENES.327_17	3.71	NCI-H69, NCI-H345, PRSC_con
333600			CH22_FGENES.213_2	3.7	NCI-H69, OVCA-R, PC3
339424			CH22_DJ579N16.GENSCAN.14-3	3.69	NCI-H69, NCI-H345, PRSC_con
336862			CH22_FGENES.297-2	3.67	NCI-H345, PRSC_con, PRSC_log
334823			CH22_FGENES.437_5	3.67	RPWE-2, PRSC_log, PRSC_con
329940			CH.16_p2 gi 6165199	3.66	CALU6, EB, MCF7
300275	Al632123	Hs.231521	ESTs	3.66	PRSC_con, NCI-H69, RPWE-2
328820			CH.07_hs gi[5868330	3.66	NCI-H69, NCI-H345, PRSC_con
332398	AA446446	Hs.104788	H sapiens clone 24554 unknown mRNA	3.66	PRSC_con, PRSC_log, NCI-H345
325791			CH.14_hs gi 6682476	3.65	NCI-H345, BT474, LnCap
	R14469	Hs.256573	ESTs	3.65	MCF7, MB-MDA-453, MB-MDA-435s
338344			CH22_EM:AC005500.GENSCAN.312-8	3.65	NCI-H345, PRSC_log, PRSC_con
333257			CH22_FGENES.118_5	3.65	DU145, EB, OVCA-R
	AA620724	Hs.112890		3.65	MB-MDA-453, DU145, MCF7
337489			CH22_FGENES.799-2	3.63	NCI-H345, NCI-H69, PRSC_log
305167	AA663080		EST singleton (not in UniGene) with exon	3.63	OVCA-R, MB-MDA-231, MB-MDA-435s
336200			CH22_FGENES.719_4	3.61	NCI-H69, PRSC_log, NCI-H345
			•		

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339208		4400==	CH22_FF113D11.GENSCAN.6-3	3.59	PRSC_con, NCI-H69, PRSC_log
	AB002058	Hs.1132/5	purinergic receptor P2X-like 1; orphan r	3.58	OVCA-R, LnCap, NCI-H69
335999			CH22_FGENES.657_1	3.57	NCI-H345, NCI-H69, PRSC_con
332909			CH22_FGENES.36_13	3.57	NCI-H345, PRSC_con, PRSC_log
	AA991423		EST singleton (not in UniGene) with exon	3.56	BT474, MB-MDA-453, MB-MDA-435s
333261	4.470000	11- 400004	CH22_FGENES.119_1	3.55	HT29, CALU6, MB-MDA-231
	AA176396	HS.169624		3.54	NCI-H69, NCI-H345, RPWE-2
335831			CH22_FGENES.620_5	3.53	MCF7, BT474, OVCA-R
333983			CH22_FGENES.310_7	3.52	NCI-H345, PRSC_con, PRSC_tog
333623			CH22_FGENES.222_2	3.51	NCI-H69, PRSC_con, PRSC_log
333997			CH22_FGENES.310_22	3.5	NCI-H345, PRSC_con, PRSC_log
325623	41000000	11- 440	CH.14_hs gl 5867000	3.5	CALU6, HT29, BT474
	Al935829	HS.140	immunoglobulin gamma 3 (Gm marker)	3.49	EB, MCF7, MB-MDA-453
	AA641485		EST singleton (not in UniGene) with exon	3.49	NCI-H23, NCI-H460, NCI-358
339268		11. 4050	CH22_BA354I12.GENSCAN.10-6	3.47	NCI-H69, NCI-H345, PRSC_con
	Al198352	Hs.105077		3.47	Caco2, PRSC_con, NCI-H69
	AA521458	MS.192738		3.46	NCI-H23, NCI-H23, NCI-H520
334664			CH22_FGENES.418_15	3.45	NCI-H69, PRSC_tog, PRSC_con
334661	1120070	U- 20700	CH22_FGENES.418_9	3.45	NCI-H69, PRSC_con, PRSC_log
	H38678	Hs.32766	H sapiens clone 24803 mRNA seq	3.44	OVCA-R, MCF7, PC3
333464			CH22_FGENES.160_1	3.44	NCI-H69, MB-MDA-231, MCF7
333580	AIGCCGEA	U= 422020	CH22_FGENES.199_2	3.42	PRSC_con, NCI-H69, PRSC_log RPWE-2, PRSC_con, NCI-H345
	Al266254	MS.132929		3.42	
334518			CH22_FGENES.400_1	3.41	PRSC_log, PRSC_con, RPWE-2
333627	4141404000	LL- 000400	CH22_FGENES.225_2	3.4	HT29, BT474, BT474
	AW194230	HS.253100		3.4	HT29, MB-MDA-453, MCF7
338221	. 10000	405000	CH22_EM:AC005500.GENSCAN.246-10	3.4	NCI-H69, PRSC_log, NCI-H345
	Al392673		T T T T T T T T T T T T T T T T T T T	3.4	PRSC_log, NCI-H345, NCI-H345
	AI971806	HS.164158		3.38	OVCA-R, EB, CALU6
326218			CH.17_hs gi[5867226	3.38	NCI-H460, NCI-H69, NCI-H345
336231			CH22_FGENES.736_3	3.38	NCI-H69, NCI-H345, PRSC_log
	Al382224		EST singleton (not in UniGene) with exon	3.37	NCH1345, PRSC_con, RPWE-2
336161	414404700	11- 400 477	CH22_FGENES.707_6	3.37	NCI-H69, NCI-H345, RPWE-2
	AW134756	HS.1924//		3.37	RPWE-2, PRSC_log, PRSC_con
336593	41404000	11- 400070	CH22_FGENES.135_1	3.37	PRSC_con, NCI-H69, RPWE-2
	Al431620	Hs.160875		3.36	HT29, OVCA-R, BT474
	AA577771	11- 4EC440	EST singleton (not in UniGene) with exon	3.36	NCI-H345, RPWE-2, PRSC_con
	AI860287	HS.15611U	Immunoglobulin kappa variable 1D-8	3.36	EB, DU145, CALU6
336347			CH22_FGENES.815_3	3.36	NCI-H69, PRSC_log, PRSC_con
334906			CH22_FGENES.452_21	3.33	Caco2, CALU6, MB-MDA-453
334548			CH22_FGENES.403_13	3.33 3.32	NCI-H345, PRSC_con, NCI-H69 NCI-H69, PRSC_log, PRSC_con
336695	A A 007407	Un 220702	CH22_FGENES.48-4		3.31 DU145, EB, MB-MDA-231
			ESTs; Weakly similar to WNT-1 PROTO-ONC		Caco2, LnCap, NCI-H69
	Al521558 T93574	U2'1121 10	v-myb avian myeloblastosis viral oncogen EST cluster (not in UniGene)	3.3 3.3	DU145, HT29, CALU6
	Al363993	Hs.157273		3.3	NCI-H345, PRSC_con, PRSC_log
327899	MINUNDON	N3. 13/ 2/3	CH.06_hs gi[5868156	3.28	BT474, MB-MDA-231, A549
				3.20	טרטה וו שביהטוורפונו ,דודום
204642	A A E 1 A 2 O 7		EST cingleton (not in I IniCone) with even	2 20	DUMS CALLIS InCan
	AA514207		EST singleton (not in UniGene) with exon	3.28	DU145, CALU6, LnCap
330021	AA514207		CH.16_p2 gl[6671889	3.27	A549, HT29, EB
330021 338132		He 188807	CH.16_p2 gij6671889 CH22_EM:AC005500.GENSCAN.200-2	3.27 3.27	A549, HT29, EB MB-MDA-231, CALU6, EB
330021 338132 323690	AA514207 AA317497	Hs.188897	CH.16_p2 gij6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs	3.27 3.27 3.27	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7
330021 338132 323690 327362		Hs.188897	CH.16_p2 gij6671889 CH22_EM.AC005500.GENSCAN.200-2 ESTs CH.01_hs gij6552412	3.27 3.27 3.27 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log
330021 338132 323690 327362 333488		Hs.188897	CH.16_p2 gij6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs gij6552412 CH22_FGENES.167_3	3.27 3.27 3.27 3.26 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log
330021 338132 323690 327362 333488 334106	AA317497		CH.16_p2 glj6871889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5	3.27 3.27 3.27 3.26 3.26 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, PRSC_con, PRSC_log
330021 338132 323690 327362 333488 334106 306990			CH.16_p2 gli6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH	3.27 3.27 3.27 3.26 3.26 3.26 3.26 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con
330021 338132 323690 327362 333488 334106 306990 328420	AA317497		CH.16_p2 gij6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs gij6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Wealdy similar to FERRITIN HEAVY CH CH.07_hs gij5868411	3.27 3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log
330021 338132 323690 327362 333488 334106 306990 328420 336214	AA317497 AI129298	Hs.146491	CH.16_p2 gij6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs gij6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs gij5868411 CH22_FGENES.722_8	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.26 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565	AA317497		CH.16_p2 glj6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.26 3.26	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333879	AA317497 AI129298 U51095	Hs.146491 Hs.1545	CH.16_p2 glj6871889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_B caudal type homeo box transcription fact CH22_FGENES.291_15	3.27 3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333879 300145	AA317497 AI129298	Hs.146491	CH.16_p2 glj6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Wealdy similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_B caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_son NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333879 300145 327581	AA317497 Al129298 U51095 Al240850	Hs.146491 Hs.1545 Hs.232016	CH.16_p2 glj6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTS CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTS CH.03_hs glj5867825	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333875 300145 327581 308153	AA317497 AI129298 U51095 AI240850 AI500429	Hs.146491 Hs.1545	CH.16_p2 glj6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333879 300145 327581 308153 308337	AA317497 Al129298 U51095 Al240850	Hs.146491 Hs.1545 Hs.232016	CH.16_p2 gli6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs gli5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs gli5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345
330021 338132 323690 327362 333480 334106 306990 328420 336214 330565 333879 300158 307581 308153 308337 329406	AA317497 AI129298 U51095 AI240850 AI500429	Hs.146491 Hs.1545 Hs.232016	CH.16_p2 glj6671889 CH22_EM:AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6682547	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231
330021 338132 323690 327362 333486 334106 328420 336214 330565 333879 300145 327581 308153 308337 329406 325482	AA317497 AI129298 U51095 AI240850 AI500429	Hs.146491 Hs.1545 Hs.232016	CH.16_p2 glj6671889 CH22_EM-AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Wealdy similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6862547 CH.12_hs glj5866957	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.24 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 327581 308153 308376 329406 325482 337544	AA317497 AI129298 U51095 AI240850 AI500429	Hs.146491 Hs.1545 Hs.232016	CH.16_p2 glj6671889 CH22_EM-AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_B caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6682547 CH.12_hs glj5866957 CH22_FGENES.833-7	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333879 300145 327581 308153 308337 329406 32548 337544 337204	AA317497 Al129298 U51095 Al240850 Al500429 Al608947	Hs.146491 Hs.1545 Hs.232016 Hs.1103	CH.16_p2 glj6871889 CH22_EMAC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Wealdy similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6682547 CH.12_hs glj5866957 CH22_FGENES.333-7 CH22_FGENES.595-1	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.24 3.24 3.24 3.23 3.23 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333879 300145 327581 308153 308337 329408 337544 337204 309451	AA317497 AI129298 U51095 AI240850 AI500429	Hs.146491 Hs.1545 Hs.232016 Hs.1103	CH.16_p2 glj6871889 CH22_EMAC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Wealdy similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6682547 CH.12_hs glj5866957 CH22_FGENES.833-7 CH22_FGENES.595-1 EST	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log PRSC_con, RPWE-2, NCI-H345
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 333875 300145 308153 308153 308337 329406 325482 337544 337204 337204 337259	AA317497 Al129298 U51095 Al240850 Al500429 Al608947	Hs.146491 Hs.1545 Hs.232016 Hs.1103	CH.16_p2 gli6671889 CH22_EMAC005500.GENSCAN.200-2 ESTs CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs gli5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs gli5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs gli6682547 CH.12_hs gli5866957 CH22_FGENES.833-7 CH22_FGENES.595-1 EST CH22_FGENES.595-1 EST CH22_FGENES.649-3	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, NCI-H69
330021 338132 323690 327362 333488 334106 306990 328420 3302145 330254 327581 308137 308337 329406 325482 337544 337204 309451 309451 309451 309451 309458	AA317497 Al129298 U51095 Al240850 Al500429 Al608947	Hs.146491 Hs.1545 Hs.232016 Hs.1103	CH.16_p2 glj6671889 CH22_EM-AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_B caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6862547 CH.12_hs glj5866957 CH22_FGENES.833-7 CH22_FGENES.595-1 EST CH22_FGENES.649-3 CH22_FGENES.649-3 CH22_FGENES.649-3 CH22_FGENES.831_10	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.24 3.23 3.23 3.23 3.23 3.23 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, NCI-H69 CALU6, MB-MDA-435s, Caco2 PRSC_log, PRSC_con, RPWE-2
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 327581 308137 309145 327581 308137 329406 337254 337204 337204 337258 337264 337264 337264 337264 337264 337264 337264 337264 337264 337264 337264 337264	AA317497 Al129298 U51095 Al240850 Al500429 Al608947	Hs.146491 Hs.1545 Hs.232016 Hs.1103	CH.16_p2 glj6671889 CH22_EM-AC005500.GENSCAN.200-2 ESTs CH.01_hs glj6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs glj5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.722_15 ESTs CH.03_hs glj5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs glj6682547 CH.12_hs glj5866957 CH22_FGENES.833-7 CH22_FGENES.833-7 CH22_FGENES.649-3 CH22_FGENES.649-3 CH22_FGENES.649-3 CH22_FGENES.631_10 CH22_FGENES.631_4	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.23 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, NCI-H69 CALU6, MB-MDA-435s, Caco2 PRSC_log, PRSC_con, RPWE-2
330021 338132 323690 327362 333488 334106 306990 328420 336214 330575 333879 300145 327581 308153 308337 329482 337544 337204 309451 337259 336880 334804 335739	AA317497 Al129298 U51095 Al240850 Al500429 Al608947 AW105128	Hs.146491 Hs.1545 Hs.232016 Hs.1103 Hs.246687	CH.16_p2 gli6871889 CH22_EMAC005500.GENSCAN.200-2 ESTS CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs gli5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs gli5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs gli6882547 CH.12_hs gli5866957 CH22_FGENES.833_7 CH22_FGENES.833_7 CH22_FGENES.649-3 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.831_4 CH22_FGENES.649-3 CH22_FGENES.831_4 CH22_FGENES.631_10	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, NCI-H69 CALU6, MB-MDA-435s, Ccao2 PRSC_log, PRSC_con, RPWE-2 NCI-H69, PRSC_con, RPWE-2 NCI-H69, PRSC_con LTGB, PRSC_con LTGB, NCI-H69, EB
330021 338132 323690 327362 333488 334106 306990 328420 330545 327581 308135 308337 308337 329406 325482 337544 337204 309451 336489 334804 335739 306264 309366	AA317497 AI129298 U51095 AI240850 AI500429 AI608947 AW105128 AA935305	Hs.146491 Hs.1545 Hs.232016 Hs.1103 Hs.246687	CH.16_p2 gli6671889 CH22_EMAC005500.GENSCAN.200-2 ESTS CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs gli5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs gli5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs gli6682547 CH.12_hs gli5866957 CH22_FGENES.833-7 CH22_FGENES.833-7 CH22_FGENES.833-1 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.831_10 cH22_FGENES.835_4 CH22_FGENES.801_10 ribosomal protein L37	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.22 3.23 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, PRSC_con LIGE, RPWE-2, PRSC_con LCLH69, PRSC_con, RPWE-2 NCI-H69, PRSC_con, RPWE-2 NCI-H69, PRSC_con LCLH69, RPWE-2, PRSC_con LCLGB, NCI-H345, PRSC_log RPWE-2, NCI-H345, PRSC_log
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 327581 308137 309145 327581 308137 329406 337254 337204	AA317497 AI129298 U51095 AI240850 AI500429 AI608947 AW105128 AA935305 AA278246	Hs.146491 Hs.1545 Hs.232016 Hs.1103 Hs.246687	CH.16_p2 gli6871889 CH22_EMAC005500.GENSCAN.200-2 ESTS CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Weakly similar to FERRITIN HEAVY CH CH.07_hs gli5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs gli5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs gli6882547 CH.12_hs gli5866957 CH22_FGENES.833_7 CH22_FGENES.833_7 CH22_FGENES.649-3 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.831_4 CH22_FGENES.649-3 CH22_FGENES.831_4 CH22_FGENES.631_10	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.22 3.23 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H69, PRSC_con, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, PRSC_con, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, PRSC_con LIGE, RPWE-2, PRSC_con LCLH69, PRSC_con, RPWE-2 NCI-H69, PRSC_con, RPWE-2 NCI-H69, PRSC_con LCLH69, RPWE-2, PRSC_con LCLGB, NCI-H345, PRSC_log RPWE-2, NCI-H345, PRSC_log
330021 338132 323690 327362 333488 334106 306990 328420 336214 330565 327581 308137 309145 327581 308137 329406 337254 337204	AA317497 Al129298 U51095 Al240850 Al500429 Al608947 AW105128	Hs.146491 Hs.1545 Hs.232016 Hs.1103 Hs.246687	CH.16_p2 gli6871889 CH22_EMAC005500.GENSCAN.200-2 ESTs CH.01_hs gli6552412 CH22_FGENES.167_3 CH22_FGENES.330_5 EST; Wealdy similar to FERRITIN HEAVY CH CH.07_hs gli5868411 CH22_FGENES.722_8 caudal type homeo box transcription fact CH22_FGENES.291_15 ESTs CH.03_hs gli5867825 transforming growth factor; beta 1 EST singleton (not in UniGene) with exon CH.X_hs gli6682547 CH.12_hs gli5866957 CH22_FGENES.831_7 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.831_10 CH22_FGENES.649-3 CH22_FGENES.649-3 CH22_FGENES.635_4 CH22_FGENES.635_4 CH22_FGENES.635_4 CH22_FGENES.601_10 rlbosomal protein L37 CH.X_hs gli6004484	3.27 3.27 3.26 3.26 3.26 3.26 3.26 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.22 3.23 3.23	A549, HT29, EB MB-MDA-231, CALU6, EB RPWE-2, NCI-H345, MCF7 NCI-H69, RPWE-2, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H345, PRSC_log, PRSC_con NCI-H69, NCI-H345, PRSC_log MCF7, EB, OVCA-R EB, DU145, HT29 PRSC_con, PRSC_log, NCI-H69 NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453 MCF7, EB, EB PRSC_log, PRSC_con, NCI-H345 DU145, HT29, MB-MDA-231 NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_log PRSC_con, RPWE-2, NCI-H345 PRSC_con, NCI-H345, NCI-H69 CALU6, MB-MDA-435s, Ccao2 PRSC_log, PRSC_con, RPWE-2 NCI-H69, PRSC_con, RPWE-2 NCI-H69, PRSC_con LTGB, PRSC_con LTGB, NCI-H69, EB

339419			CH22_DJ579N16.GENSCAN.11-11	3.15	NCI-H69, PRSC_log, RPWE-2
	AI536797	Hs.173155		3.15	LnCap, NCHH69, Caco2
333608			CH22_FGENES.216_3	3.15	NCI-H345, PRSC_con, PRSC_log
339193	******		CH22_FF113D11.GENSCAN.1-5	3.14	NCI-H69, NCI-H345, PRSC_con
31002/	AW293404	Hs.211986	ESTS	3.14	PRSC_log, PRSC_con, RPWE-2
333271	AATU1443	Hs.183983		3.14	PRSC_con, NCI-H69, PRSC_log
330280			CH22_FGENES.121_2 CH.05_p2 g 6671910	3.13 3.13	NCI-H345, NCI-H69, RPWE-2 NCI-H69, NCI-H345, PRSC_log
	AW451663		EST singleton (not in UniGene) with exon	3.13	PRSC_con, PRSC_log, RPWE-2
	Al285535		EST singleton (not in UniGene) with exon	3.13	MB-MDA-231, BT474, BT474
	U39840	Hs.105440	hepatocyte nuclear factor 3; alpha	3.13	MB-MDA-453, LnCap, Caco2
314404	AW104203	Hs.157505	ESTs	3.13	DU145, EB, OVCA-R
334030			CH22_FGENES.320_2	3.13	NCI-H69, NCI-H345, PRSC_con
	Al925949		EST singleton (not in UniGene) with exon	3.13	BT474, MCF7, EB
	AI733250	Hs.192262		3.12	OVCA-R, EB, MB-MDA-453
	H71886		EST singleton (not in UniGene) with exon	3.12	PRSC_con, NCI-H69, RPWE-2
334590 333408			CH22_FGENES.407_13	3.12 3.11	NCI-H69, NCI-H345, PRSC_con
	H14624	Hs.31386	CH22_FGENES.145_6 ESTs; Highly similar to secreted apoptos	3.11	PRSC_log, RPWE-2, PRSC_con DU145, OVCA-R, PC3
	N23730	Hs.25647	v-fos FBJ murine osteosarcoma viral onco	3.11	EB, MB-MDA-453, MCF7
333682	1120700	113.20077	CH22_FGENES.247_10	3.1	PRSC_con, PRSC_log, RPWE-2
	AI680562	Hs.246192	ESTs; Weakly similar to REGULATOR OF MI		3.1 PC3, MB-MDA-453, DU145
		Hs.195649		3.1	PRSC_con, RPWE-2, PRSC_log
333441			CH22_FGENES.151_5	3.1	RPWE-2, NCI-H345, PRSC_log
326459			CH.19_hs gi 5867400	3.09 ~	EB, CALU6, PC3
313493	AA910339	Hs.126868	ESTs	3.09	NCI-H345, PRSC_con, RPWE-2
339356			CH22_BA354I12.GENSCAN.31-1	3.08	NCI-H69, NCI-H345, PRSC_log
333629			CH22_FGENES.226_5	3.08	NCI-H69, NCI-H345, PRSC_log
304127	H42981		EST singleton (not in UniGene) with exon	3.07	LnCap, PRSC_con, DU145
325691			CH.14_hs gij5867021	3.07	NCI-H345, PRSC_con, NCI-H69
333014 327379			CH22_FGENES.61_6	3.07 3.07	PRSC_con, PRSC_log, NCI-H345
337816			CH.02_hs gij5867795 CH22_EM:AC005500.GENSCAN.13-1	3.06	PRSC_con, PRSC_log, NCI-H69 NCI-H69, PRSC_con, PRSC_log
337954			CH22_EM:AC005500.GENSCAN.96-3	3.06	PRSC_log, NCI-H69, NCI-H345
328109			CH.06_hs gi[5868020	3.05	HT29, BT474, MB-MDA-231
338527			CH22_EM:AC005500.GENSCAN.396-15	3.05	NCI-H69, NCI-H345, PRSC_con
320083	T87761		EST cluster (not in UniGene)	3.05	BT474, MB-MDA-435s, MCF7
333466			CH22_FGENES.161_2	3.05	NCI-H345, RPWE-2, PRSC_log
334788			CH22_FGENES.432_13	3.04	EB, A549, CALU6
302681	X97550		EST	3.04	OVCA-R, EB, MB-MDA-453
336238			CH22_FGENES.743_3	3.03	NCI-H69, PRSC_log, PRSC_con
337606			CH22_C20H12.GENSCAN.17-2	3.02	HT29, BT474, MB-MDA-231
333545	AM275456	He 156110	CH22_FGENES.180_1 Immunoglobulin kappa variable 1D-8	3.02 3.02	NCI-H69, NCI-H345, RPWE-2 PRSC_log, PRSC_con, RPWE-2
		Hs.207285		3.02	BT474, MB-MDA-231, HT29
321074		Hs.32756		3.02	PC3, BT474, MB-MDA-231
337094			CH22_FGENES.465-19	3.01	PRSC_con, PRSC_log, RPWE-2
313913	AW391342		EST cluster (not in UniGene)	3	NCI-H345, RPWE-2, PRSC_log
329140			CH.X_hs gip6017060	3	EB, DU145, PC3
335331			CH22_FGENES.535_4	3	MB-MDA-435s, HT29, BT474
334827			CH22_FGENES.437_9	2.99	CALU6, EB, DU145
326029	T00252		CH.17_hs gli5867176	2.99	NCI-H345, RPWE-2, PRSC_con
303100 328768	109353		EST	2.99 2.99	MB-MDA-453, NCI-H345, RPWE-2 NCI-H345, PRSC_con, NCI-H69
329392			CH.07_hs gij6017031 CH.X_hs gij6478815	2.98	NCI-H69, NCI-H345, PRSC_con
	AA663105		EST singleton (not in UniGene) with exon	2.98	LnCap, NCI-H345, MCF7
		Hs.191798		2.98	Caco2, HT29, NCI-358
334474			CH22_FGENES.394_5	2.98	NCI-H69, PRSC_con, RPWE-2
	AA007534	Hs.125062		2.98	HT29, OVCA-R, A549
310620	Al341328	Hs.178953	ESTs	2.97	PRSC_con, RPWE-2, PRSC_log
328276			CH.07_hs gi[6004471	2.97	NCI-H345, NCI-H69, RPWE-2
331018			ESTs; Weakly similar to FK506/rapamycin-	2.96	Ca∞2, NCI-H460, A549
321523	H78472	Hs.191325	ESTs; Weakly similar to cDNA EST yk414c9		PRSC_con, PRSC_log, NCI-H345
339280			CH22_BA354I12.GENSCAN.14-12	2.96	NCHH69, PRSC_log, NCHH345
	AA885428		EST singleton (not in UniGene) with exon	2.96	NCI-H520, NCI-358, MB-MDA-453
335755	VI U43U05	Hs.165387	CH22_FGENES.604_4	2.95	EB, A549, MB-MDA-453 PRSC_con, NCI-H345, PRSC_log
. 2 / . 274 1/	ビアクチン の20	110.10000/	CH.X_p2 gij6580495	2.95 2.05	EB, DU145, MB-MDA-435s
			CH:X_pz gijo560495 CH22_FGENES,402_9	2.95 2.94	EB, MCF7, DU145
330370					
330370 334529			CH22 BA354112 GENSCAN 7-11	2.94	NCI-709, NCI-71343, FRSC WIII
330370 334529 339256			CH22_BA354112.GENSCAN.7-11 CH22_FGENES.432_8	2.94 2.94	NCI-H69, NCI-H345, PRSC_con A549, Caco2, PC3
330370 334529 339256 334783			CH22_BA354I12.GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2	2.94	
330370 334529 339256 334783 335266	AA845957	Hs.128385	CH22_FGENES.432_8 CH22_FGENES.521_2		A549, Caco2, PC3
330370 334529 339256 334783 335266	AA845957	Hs.128385	CH22_FGENES.432_8 CH22_FGENES.521_2	2.94 2.94	A549, Caco2, PC3 NCI-H69, PRSC_con, PRSC_con NCI-H345, PRSC_con, PRSC_log NCI-H69, NCI-H345, PRSC_log
330370 334529 339256 334783 335266 323707	AA845957	Hs.128385	CH22_FGENES.432_8 CH22_FGENES.521_2 ESTs	2.94 2.94 2.94	A549, Caco2, PC3 NCI-H69, PRSC_con, PRSC_con NCI-H345, PRSC_con, PRSC_log

336479			CHAS ECEMES 530 30	2.92	NCI-H69, PRSC_con, PRSC_log
336086			CH22_FGENES.829_39 CH22_FGENES.688_15	2.92	PRSC_con, Caco2, CALU6
338516			CH22_EM:AC005500.GENSCAN.392-6	2.92	NCHH69, NCHH345, PRSC_con
320121	T93657		EST cluster (not in UniGene)	2.92	EB, BT474, HT29
	AA844730		EST singleton (not in UniGene) with exon	2.92	MB-MDA-453, MCF7, DU145
339304	70.071.00		CH22_BA354112.GENSCAN.20-16	2.91	PRSC_con, PRSC_log, NCI-H69
327472			CH.02_hs glj5867775	2.91	PRSC_log, PRSC_con, RPWE-2
	AW139426	Hs 244718		2.91	PRSC_con, PRSC_log, RPWE-2
338431		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CH22_EM;AC005500.GENSCAN.351-4	2.9	BT474, MCF7, MB-MDA-453
339230			CH22_BA354I12.GENSCAN.1-6	2.89	NCI-H69, NCI-H345, PRSC_log
	NM_00365		EST cluster (not in UniGene)	2.89	OVCA-R, HT29, MB-MDA-231
	AA581692	Hs.2186	eukaryotic translation elongation factor	2.89	OVCA-R, EB, MCF7
337768			CH22_EM:AC000097.GENSCAN.119-6	2.88	NCHH69, LnCap, DU145
	AA319115	Hs.191558		2.88	NCI-H460, NCI-H520, NCI-358
	W93011	Hs.110155		2.87	BT474, MB-MDA-453, MB-MDA-435s
	H08815	Hs.159824		2.87	OVCA-R, PC3, A549
334215			CH22_FGENES.357_7	2.87	NCI-H69, PRSC_con, PRSC_log
333568			CH22_FGENES.185_1	2.87	PRSC_con, PRSC_log, NCI-H69
333142			CH22_FGENES.85_5	2.87	NCI-H69, HT29, HT29
330239			CH.05_p2 gi 6671857	2.87	MB-MDA-453, MB-MDA-453, EB
302120	R55140	Hs.31075	ESTs; Weakly similar to Weak similarity	2.87	CALU6, MB-MDA-435s, BT474
338679			CH22_EM:AC005500.GENSCAN.470-1	2.86	NCI-H345, PRSC_log, PRSC_con
329041			CH.X_hs gi 5868564	2.86	LnCap, PRSC_con, RPWE-2
333541			CH22_FGENES.178_3	2.86	NCI-H69, NCI-H345, PRSC_con
337011			CH22_FGENES.427-6	2.86	NCI-H69, PRSC_log, PRSC_con
	AA375646		EST cluster (not in UniGene)	2.86	NCI-H345, PRSC_log, LnCap
	AA416586	Hs.98232	ESTS	2.86	DU145, OVCA-R, HT29
336599			CH22_FGENES.350_3	2.85	LпСар, NCI-H69, NCI-H345
337586			CH22_C20H12.GENSCAN.5-4	2.85	NCI-H345, NCI-H69, PRSC_con
336177			CH22_FGENES.712_2	2.85	NCI-H69, PRSC_log, RPWE-2
337522			CH22_FGENES.819-1	2.85	CALU6, OVCA-R, HT29
338596			CH22_EM:AC005500.GENSCAN.437-2	2.85	NCI-H69, PRSC_con, NCI-H345
	AW150044	HS.252259	ribosomal protein S3	2.85	MB-MDA-453, MB-MDA-435s, MB-MDA-435s
336981			CH22_FGENES.397-7	2.85	NCI-H69, PRSC_con, PRSC_log
330286			CH.05_p2 gij6671913	2.84	NCI-H345, PRSC_log, NCI-H69
333713			CH22_FGENES.251_2	2.84	RPWE-2, PRSC_con, NCI-H69 MB-MDA-231, NCI-H345, RPWE-2
335068	A A C 44000	U- 4044CE	CH22_FGENES.483_5	2.83 2.83	EB, LnCap, DU145
	AA041200	US' 10 1 100	eukaryotic translation elongation factor	2.82	NCI-H69, PRSC_con, PRSC_log
326380 334970			CH.19_hs gi 5867327	2.82	PRSC_con, NCI-H69, RPWE-2
337097			CH22_FGENES.466_3 CH22_FGENES.471-1	2.82	NCI-H345, NCI-H69, PRSC_log
	AI702835		EST cluster (not in UniGene)	2.82	LnCap, A549, CALU6
333785	All decoor		CH22_FGENES.274_4	2.82	OVCA-R, Caco2, MB-MDA-453
334175			CH22_FGENES.349_10	2.81	RPWE-2, BT474, MCF7
337865			CH22_EM:AC005500.GENSCAN.46-5	2,81	Caco2, NCI-H23, BT474
	AA083564	Hs.249220	H sapiens mRNA for hTbr2; complete cds	2.81	EB, DU145, MB-MDA-453
336623			CH22_FGENES.4-5	2.81	NCI-H345, PRSC_con, NCI-H69
332854			CH22_FGENES.22_1	2.8	RPWE-2, PRSC_log, PRSC_con
336978			CH22_FGENES.384-10	2.8	PRSC_con, NCI-H345, RPWE-2
326874			CH.20_hs gi 6682507	2.8	RPWE-2, NCI-H345, PRSC_log
	AA565011	Hs.105902		2.8	NCI-H345, PRSC_log, RPWE-2
311185	AI638294	Hs.224665	ESTs	2.8	NCI-H69, NCI-H345, PRSC_log
334682			CH22_FGENES.419_4	2.8	NCI-H69, PRSC_log, RPWE-2
316845	AW418715	Hs.250388		2.79	RPWE-2, NCI-H345, PRSC_log
331599	N74626	Hs.50535	ESTs	2.79	A549, MB-MDA-453, MB-MDA-435s
315681	AW022054	Hs.136591	ESTs	2.78	NCI-H460, MB-MDA-453, MCF7
	Al207390	Hs.143929		2.78	DU145, MB-MDA-453, MCF7
	AA010267		EST cluster (not in UniGene)	2.78	NCI-H520, NCI-H460, HT29
327277			CH.01_hs gl]5867473	2.78	DU145, CALU6, EB
	Al494514	Hs.171380		2.78	LnCap, RPWE-2, NCI-H460
335090			CH22_FGENES.490_1	2.77	NCHH69, PRSC_log, PRSC_con
328581			CH.07_hs gij6006033	2.77	HT29, MB-MDA-453, MCF7
333219	41504055		CH22_FGENES.104_11	2.77	NCI-H69, PRSC_tog, NCI-H345
	AI581855		EST singleton (not in UniGene) with exon	2.77	MB-MDA-231, HT29, CALU6
329760	A1444C0000	11- DE0100	CH.14_p2 gi 6048280	2.77	CALU6, DU145, EB
	AW469999	ms.206523		2.77 2.77	NCI-H69, LnCap, MB-MDA-231 NCI-H69, LnCap, MB-MDA-453
337628			CH22_C20H12.GENSCAN.28-31	2.77 2.77	NCI-H69, NCI-H345, PRSC_con
333520	A A P70 470	Un 107770	CH22_FGENES.174_3 ESTs; Weakly similar to estrogen-respons	2.77 2.76	DU145, OVCA-R, MB-MDA-453
				2.76 2.76	OVCA-R, EB, DU145
313451	AW138189	110.144014	CH.07_hs gl[5868446	2.76	NCI-H69, NCI-H345, RPWE-2
	AA477414	He 9242	purine-rich element binding protein B	2.76	MB-MDA-435s, A549, OVCA-R
	CONTENT 19	110.0242	· · · · · · · · · · · · · · · · · · ·		
300 100			EST SINGISTON (NOT IN LINUSERS) WITH AYAN	Z./D	NCF09, D0 145, L1Cab
321071	AA922503	Hs.241502	EST singleton (not in UniGene) with exon Cdc42 effector protein 4	2.76 2.76	NCI-H69, DU145, LnCap PRSC_log, PRSC_con, NCI-H345
	AA922503 AA013011	Hs.241502	Cdo42 effector protein 4 EST	2.76	
302972	AA922503 AA013011 W73400		Cdc42 effector protein 4		PRSC_log, PRSC_con, NCI-H345

225000			OLDO FORNES SES 45	2.75	NOT USO BOSC on DOME?
335998	R11699	Hs.73818	CH22_FGENES.656_16 ubiquinol-cytochrome c reductase hinge p	2.75 2.75	NCI-H69, PRSC_con, RPWE-2 NCI-H345, NCI-H69, PRSC_con
336387	K 11033	F13.73010	CH22 FGENES.822 7	2.75	PRSC_con, RPWE-2, PRSC_log
338054			CH22_EM:AC005500.GENSCAN.158-2	2.75	OVCA-R, EB, DU145
	AA719183		EST duster (not in UniGene)	2.74	DU145, MCF7, MB-MDA-453
336863			CH22_FGENES.297-4	2.74	MB-MDA-453, MCF7, OVCA-R
335975			CH22_FGENES.652_9	2.74	CALU6, EB, A549
	AF103179		EST	2.74	CALU6, MB-MDA-435s, BT474
326122			CH.17_hs gl[5867194	2.74	HT29, Caco2, PC3
337427			CH22_FGENES.761-4	2.74	RPWE-2, NCI-H69, PRSC_log
308063	A1469244	Hs.119252	tumor protein; translationally-controlle	2.74	NCI-358, NCI-H23, Caco2
325433			CH.12_hs gij5866936	2.74	NCI-H345, PRSC_con, RPWE-2
316252	A1572633	Hs.190406	ESTs	2.74	OVCA-R, MCF7, A549
	AI418688	Hs.170301		2.74	NCI-H345, PRSC_con, RPWE-2
	AW467335	Hs.257676		2.74	HT29, MCF7, MB-MDA-231
335455			CH22_FGENES.562_15	2.74	NCI-H69, LnCap, PRSC_con
	AA583101		ribosomal protein L10	2.73	EB, OVCA-R, MB-MDA-453
	AA469937	MS. 100322		2.73 2.73	MCF7, BT474, NCI-H460 NCI-H69, PRSC_con, PRSC_log
336198	A1660452	Hs.187127	CH22_FGENES.719_2	2.73	MB-MDA-231, LnCap, BT474
	AI419692	FIS. 10/ 12/	EST singleton (not in UniGene) with excn	2.73	HT29, HT29, EB
	AI088590	Hs.134702		2.73	PRSC_log, NCI-H345, PRSC_con
327833	/100000	TIOTIOE	CH.05_hs gij5867968	2.73	BT474, PC3, MB-MDA-231
	AW449602	Hs.217953	ESTs; Highly similar to NK-TUMOR RECOGN		2.73 NCI-H520, NCI-358, MB-MDA-453
326039	7		CH.17_hs gi 5867179	2.73	MB-MDA-453, EB, EB
	Al149678	Hs.143952		2.72	PRSC_con, PRSC_log, NCI-H345
336753			CH22_FGENES.128-9	2.72	MB-MDA-435s, NCI-H520, MCF7
330086			CH.19_p2 gij6015293	2.72	HT29, MB-MDA-453, MCF7
333566			CH22_FGENES.183_2	2.72	HT29, BT474, OVCA-R
339384			CH22_BA232E17.GENSCAN.3-22	2.71	NCI-H69, NCI-H345, PRSC_log
338668			CH22_EM:AC005500.GENSCAN.465-1	2.71	NCI-H69, RPWE-2, PRSC_con
	Al382618	Hs.194613		2.71	PRSC_con, NCI-H345, PRSC_log
	Al142379		EST	2.71	PRSC_log, PRSC_con, RPWE-2
	AA666301		EST singleton (not in UniGene) with exon	2.71	EB, NCI-H520, OVCA-R
338725	A10E4440		CH22_EM:AC005500.GENSCAN.499-1	2.7	CALU6, MB-MDA-453, PC3
	AI351112	Ha 250100	EST singleton (not in UniGene) with exon	2.7 2.69	HT29, BT474, MCF7 NCI-358, NCI-H69, NCI-H23
	AW173642 L10141	ms.230100	EST	2.69	OVCA-R, BT474, PC3
	Al695133		EST singleton (not in UniGene) with exon	2.69	HT29, CALU6, MB-MDA-435s
	AA079727		EST cluster (not in UniGene)	2.69	NCI-H345, NCI-H69, PRSC_con
325695	70.07072.		CH.14_hs gi]6552446	2.69	NCI-H69, NCI-H460; NCI-H460
	Al335557		EST singleton (not in UniGene) with exon	2.68	NCI-H69, PRSC_log, NCI-358
	N79624		EST	2.68	NCI-H69, PRSC_con, NCI-H345
	AW028652		EST singleton (not in UniGene) with exon	2.68	HT29, MB-MDA-231, MB-MDA-231
339360			CH22_BA354I12.GENSCAN.32-2	2.68	NCI-H69, PRSC_log, PRSC_con
337821			CH22_EM:AC005500.GENSCAN.13-11	2.68	PRSC_con, PRSC_log, PRSC_log
337338			CH22_FGENES.717-7	2.68	NCI-H69, PRSC_con, PRSC_log
334510			CH22_FGENES.398_8	2.68	NCI-H460, NCI-H23, NCI-358
	AA491286	Hs.128792		2.68	MB-MDA-435s, CALU6, DU145
335536			CH22_FGENES.574_2	2.67	NCI-H69, NCI-H345, PRSC_log
335311			CH22_FGENES.532_4	2.67	MB-MDA-435s, Caco2, A549
338959			CH22_DJ32I10.GENSCAN.23-31	2.67	NCI-H345, PRSC_con, NCI-H69 NCI-H345, RPWE-2, NCI-H69
339081 334068			CH22_DA59H18.GENSCAN.37-10 CH22_FGENES.327_23	2.67 2.67	PRSC_con, RPWE-2, PRSC_log
338976			CH22_DA59H18.GENSCAN.1-3	2.66	PRSC_con, PRSC_log, RPWE-2
325524			CH.12_hs gij5866981	2.66	NCI-H345, RPWE-2, PRSC_con
333069			CH22_FGENES.76_5	2.66	NCI-H69, NCI-H345, PRSC_con
336203			CH22_FGENES.719_7	2.66	OVCA-R, PC3, A549
333133			CH22_FGENES.83_9	2.66	HT29, OVCA-R, A549
	T77842	Hs.142528		2.65	DU145, CALU6, EB
330919	AA224594	Hs.86941	ESTs	2.65	PRSC_con, RPWE-2, LnCap
333248			CH22_FGENES.115_5	2.65	NCI-H345, PRSC_con, MB-MDA-231
336665			CH22_FGENES.42-2	2.65	NCI-H69, PRSC_log, PRSC_con
	AA770599		EST cluster (not in UniGene)	2.65	A549, MB-MDA-453, MB-MDA-435s
	AI264023		EST singleton (not in UniGene) with exon	2.65	NCI-H69, NCI-H345, RPWE-2
			DKFZP564C196 protein	2.65	MB-MDA-453, MCF7, HT29
	AW361892		EST CLIAN DE PROPERT	2.65	NCI-H345, PRSC_con, PRSC_log
327246			CH.01_hs gij5867547	2.65	EB, OVCA-R, DU145 PRSC_con, PRSC_log, RPWE-2
337403			CH22_FGENES.752-2	2.65	MCF7, MB-MDA-231, BT474
328221 336759			CH.06_hs gij5868099 CH22_FGENES.133-2	2.64 2.64	NCI-H69, PRSC_log, PRSC_com
327532			CH.02_hs gij6469818	2.64	PC3, CALU6, A549
305621	AA789095		EST singleton (not in UniGene) with exon	2.64	HT29, MB-MDA-231, MB-MDA-453
322931	AA099329	Hs.151764	ESTs	2.64	PRSC_con, RPWE-2, NCI-H345
327278			CH.01_hs glj5857473	2.64	EB, NCI-H460, NCI-H69
	N51413	Hs.109284		2.64	DU145, EB, OVCA-R
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332792			CH22_FGENES.3_2	2.63	HT29, Caco2, A549
	AI862668	Hs.176333		2.63	NCI-358, NCI-358, HT29
337484			CH22_FGENES.795-8	2.63	NCI-H69, NCI-H345, PRSC_con
325783	4141700000	II- 040007	CH.14_hs gi 6456780	2.63	EB, OVCA-R, PC3
		Hs.210527		2.63	PRSC_log, NCI-H345, NCI-H69
	AA894560		EST singleton (not in UniGene) with exon	2.63 2.63	HT29, MB-MDA-231, CALU6
337930	A1695484		EST singleton (not in UniGene) with exon	2.62	PC3, A549, NCI-358 PC3, OVCA-R, MCF7
327791			CH22_EM:AC005500.GENSCAN.81-3	2.62	PRSC_log, PRSC_con, NCI-H345
	AA232678	Un 97079	CH.05_hs gi 5867977	2.62	OVCA-R, MCF7, LnCap
327259	MAZJZ010	ns.0/0/3	ESTS	2.62	NCI-H345, PRSC_con, RPWE-2
	A EDG1756	He 152521	CH.01_hs gij5867454 heart and neural crest derivatives expre	2.61	OVCA-R, PC3, A549
			glyceraldehyde-3-phosphate dehydrogenase		MB-MDA-435s, NCI-H23, MCF7
335956	M330301	113.133100	CH22_FGENES.647_3	2.61	DU145, PRSC_con, PC3
326506			CH.19_hs gij5867435	2.61	RPWE-2, NCI-H460, NCI-358
335863			CH22_FGENES.629_8	2.61	PC3, HT29, NCI-358
334752			CH22_FGENES.428_1	2.61	PRSC_con, NCI-H69, PRSC_log
333288			CH22_FGENES.128_19	2.61	HT29, NCI-358, Caco2
	AI024215	Hs.131477		2.61	MB-MDA-435s, MCF7, BT474
	AA854776		EST singleton (not in UniGene) with exon	2.6	MB-MDA-453, MCF7, MB-MDA-435s
327264			CH.01_hs gi 5867461	2.6	MB-MDA-435s, MB-MDA-435s, MB-MDA-453
	AW075527	Hs.252259	ribosomal protein S3	2.6	OVCA-R, EB, DU145
		Hs.135179		2.6	DU145, EB, OVCA-R
322649	AA526549		EST cluster (not in UniGene)	2.6	PRSC_con, RPWE-2, PRSC_log
329384			CH.X_hs gij5868869	2.6	NCI-H69, NCI-H345, PRSC_con
321240	M62378		EST cluster (not in UniGene)	2.6	BT474, CALU6, MB-MDA-231
302751	AA299576	Hs.156110	immunoglobulin kappa variable 1D-8	2.59	MCF7, MB-MDA-453, OVCA-R
	AA860348		EST singleton (not in UniGene) with exon	2.59	NCI-H345, PRSC_log, PRSC_con
324180	AA402242	Hs.122799	ESTs	2.58	EB, PC3, HT29
334196			CH22_FGENES.353_4	2.58	NCI-H345, NCI-H69, PRSC_con
338451			CH22_EM:AC005500.GENSCAN.359-39	2.58	MB-MDA-435s, NCI-H23, MCF7
		Hs.227052		2.58	PRSC_con, PRSC_log, NCI-H69
	AA632201		EST singleton (not in UniGene) with exon	2.58	NCI-H460, MB-MDA-453, MB-MDA-435s
		Hs.156110	Immunoglobulin kappa variable 1D-8	2.57	PRSC_con, RPWE-2, NCI-H345
	W22230		EST	2.57	PRSC_con, PRSC_log, NCI-H345
329182			CH.X_hs gi[6056331	2.57	PRSC_con, RPWE-2, NCI-H345
	AW13/425	Hs.158401		2.57	MB-MDA-231, PRSC_con, BT474
330057			CH.17_p2 gij6478962	2.57	NCI-H345, RPWE-2, PRSC_con
326552		11. 400104	CH.19_hs gi 5867308	2.57	NCI-H345, PRSC_con, RPWE-2
	T67085	Hs.188464		2.57	HT29, MB-MDA-453, NCI-H460
327185	NIN 00004		CH.01_hs gi[6117805	2.57	CALU6, HT29, EB
	NM_00224		EST	2.57	MCF7, PC3, OVCA-R PRSC_con, NCI-H69, PRSC_log
327263 339164			CH.01_hs gi 6525274	2.56 2.56	NCI-H69, PRSC_con, NCI-H345
	AA063554	Hs.90959	CH22_DA59H18.GENSCAN.69-4 ESTs	2.56	RPWE-2, NCI-H345, PRSC_con
	U67733		phosphodiesterase 2A; cGMP-stimulated	2.55	HT29, CALU6, PC3
329948	00/100	110.107701	CH.16_p2 gij5540101	2.55	NCI-H460, MCF7, MB-MDA-453
	AW044305	Hs 236131	ESTs; Highly similar to homeodomain-inte	2.55	NCI-H460, NCI-H23, NCI-H23
335448	A11011000	110.200101	CH22_FGENES.562_5	2.55	MB-MDA-453, BT474, MCF7
	H09174	Hs.26484	HIRA-interacting protein 3	2.55	MB-MDA-453, HT29, MCF7
	AI202100		EST singleton (not in UniGene) with exon	2.55	MCF7, DU145, MB-MDA-435s
335806			CH22_FGENES.616_8	2.55	NCI-H345, NCI-H69, PRSC_con
335782			CH22_FGENES.609_4	2.55	Caco2, MB-MDA-453, MB-MDA-435s
	AW301478		EST	2.55	PC3, MCF7, MB-MDA-453
329018			CH.X_hs gij6249620	2.54	NCI-H69, PRSC_log, PRSC_con
329870			CH.14_p2 gij6706435	2.54	NCI-H23, NCI-H460, NCI-358
334504			CH22_FGENES.398_2	2.54	HT29, BT474, MB-MDA-231
304707	AA564846		EST singleton (not in UniGene) with exon	2.53	NCI-H520, EB, NCI-H460
329326			CH.X_hs gi 5868806	2.53	MB-MDA-231, NCI-H345, NCI-H69
334418			CH22_FGENES.384_5	2.53	NCI-H23, NCI-358, NCI-H460
338124			CH22_EM:AC005500.GENSCAN.196-2	2.53	NCI-H69, PRSC_con, PRSC_log
	AI362671	Hs.214491		2.53	OVCA-R, EB, DU145
333006			CH22_FGENES.60_3	2.53	NCI-H69, PRSC_con, PRSC_log
333668			CH22_FGENES.245_2	2.53	NCI-H69, PRSC_log, PRSC_con
333567			CH22_FGENES.184_2	2.53	NCI-H69, NCI-H345, PRSC_con
	AW172384		EST singleton (not in UniGene) with exon	2.52	LnCap, NCI-H69, DU145
328989			CH.09_hs gij5868535	2.52	MB-MDA-435s, OVCA-R, EB
326725	AE064000		CH.20_hs gi 6552456	2.52	PRSC_con, NCI-H345, NCI-H69
	AF054663		EST CH22 EGENES 604 2	2.52	HT29, BT474, CALU6 NCI-H69, PRSC_Jog, NCI-H345
335733			CH22_FGENES.601_3	2.52	LnCap, OVCA-R, DU145
336000			CH22_FGENES.658_1 CH.05_hs gij5867964	2.52 2.52	DU145, CALU6, HT29
327774			CH.07_hs gij5868489	2.52 2.52	MB-MDA-453, MB-MDA-435s, MCF7
328557 328228			CH.08_hs gij5868105	2.52	NCI-H69, NCI-H345, PRSC_con
328305			CH.07_hs gij6004478	2.52	NCI-H69, NCI-H460, PRSC_log
334010			CH22_FGENES.313_1	2.51	NCI-H69, PRSC_log, PRSC_con

339033			CH22_DA59H18.GENSCAN.26-1	2.51	NCI-H69, NCI-H345, PRSC_con
335340			CH22_FGENES.535_17	2.51	NCHH69, PRSC_con, PRSC_log
	A1245582	Hs.233395		2.51	PRSC_con, PRSC_log, NCI-H345
			Immunoglobulin kappa variable 1D-8	2.5	EB, OVCA-R, DU145
	A1968009	Hs.232024		2.5	LnCap, NCI-358, CALU6
336908	AA541735		CH22_FGENES.343-2 EST singleton (not in UniGene) with exon	2.5 2.5	NCI-H345, RPWE-2, PRSC_log RPWE-2, NCI-H69, MCF7
		Hs 107149	ESTs; Weakly similar to PTB-ASSOCIATED		NCI-H460, EB, Ca∞2
	Al285739		EST singleton (not in UniGene) with exon	2.5	PRSC_con, NCI-H345, PRSC_log
331476	N26190	Hs.43768	ESTs	2.5	NCI-H345, NCI-H69, PRSC_con
325803			CH.14_hs gij6552451	2.5	NCI-H345, RPWE-2, PRSC_∞n
	AA993796		EST singleton (not in UniGene) with exon	2.49	A549, OVCA-R, CALU6
336333	AA586504		EST singleton (not in UniGene) with exon CH22_FGENES.813_1	2.49 2.49	MCF7, DU145, LnCap NCI-H345, PRSC_con, PRSC_log
332320	T71134	Hs.100551		2.49	NCI-H345, LnCap, RPWE-2
328236			CH.06_hs gij5868117	2.49	PRSC_con, NCI-H345, PRSC_log
	Al656979	Hs.130210		2.49	MCF7, MB-MDA-453, PC3
339188			CH22_DA59H18.GENSCAN.72-16	2.48	NCI-H69, PRSC_con, PRSC_log
334235	AWAEODEO	Un 45702A	CH22_FGENES.361_19	2.48 2.48	NCI-H520, MB-MDA-453, A549 HT29, A549, A549
332843	AVV40U00U	HS. 107004	ESTs; Weakly similar to Unknown [H.saple CH22_FGENES.19_1	2.48	DU145, CALU6, EB
337431			CH22_FGENES.763-7	2.48	PRSC_con, RPWE-2, NCI-H69
336757			CH22_FGENES.131-1	2.48	NCI-H69, PRSC_log, PRSC_con
	AA723748		EST singleton (not in UniGene) with exon	2.48	NCI-H23, DU145, OVCA-R
330065	A1070447		CH.19_p2 gij6165044	2.48	PRSC_con, PRSC_log, NCI-H69
328876	A1972447		EST singleton (not in UniGene) with exon	2.48 2.47	MB-MDA-231, NCI-H69, HT29 MB-MDA-231, CALU6, PC3
333944			CH.07_hs gi 6525286 CH22_FGENES.302_2	2.47	NCI-H69, RPWE-2, PRSC_log
328504			CH.07_hs gij5868471	2.47	LnCap, MB-MDA-453, MB-MDA-435s
338120			CH22_EM:AC005500.GENSCAN.195-1	2.47	MB-MDA-231, NCI-H69, PRSC_∞n
	Al024221		EST singleton (not in UniGene) with exon	2.47	OVCA-R, EB, LnCap
	AA636012		EST singleton (not in UniGene) with exon	2.47	NCI-H69, RPWE-2, PRSC_con
329995	A1024742	Un 460440	CH.16_p2 gi 4567166	2.47 2.46	OVCA-R, DU145, MB-MDA-453 EB, A549, LnCap
	H64622	Hs.32748	ESTs; Moderately similar to IIII ALU SUB	2.46	EB, MCF7, MB-MDA-435s
	AA679225	113.027 10	EST singleton (not in UniGene) with exon	2.46	PRSC_con, NCI-H345, RPWE-2
	AA496563		EST singleton (not in UniGene) with exon	2.46	PRSC_con, RPWE-2, PRSC_log
	R60487	Hs.21065	ESTs	2.46	NCI-H345, Cacc2, Cacc2
	AI868958	11- 007400	EST singleton (not in UniGene) with exon	2.46	PRSC_con, PRSC_log, RPWE-2
		Hs.207128 Hs.170298		2.46 2.46	OVCA-R, MB-MDA-231, HT29 PRSC_log, PRSC_con, NCI-H345
339130	~~~~~~	110.170200	CH22_DA59H18.GENSCAN.56-3	2.46	NCI-H345, PRSC_con, RPWE-2
337612			CH22_C20H12.GENSCAN.22-5	2.46	EB, A549, Caco2
			ESTs; Weakly similar to gag [H.sapiens]	2.45	RPWE-2, PRSC_log, PRSC_con
	AW294254	Hs.223742		2.45	PRSC_log, RPWE-2, PRSC_con
328620	A A 7 0 0 0 0 2		CH.07_hs gi 5868241 EST singleton (not in UniGene) with exon	2.45	MB-MDA-453, MCF7, MB-MDA-435s HT29, MB-MDA-435s, A549
336243	AA708902		CH22_FGENES.746_1	2.45 2.44	OVCA-R. MB-MDA-453, MB-MDA-435s
	H08323	Hs.177181		2.44	PRSC_con, RPWE-2, NCI-H345
	H48676		EST	2.44	MB-MDA-453, EB, DU145
333465		•	CH22_FGENES.160_2	2.44	NCI-H69, PRSC_con, PRSC_log
334109	E40000	LI= 00700 '	CH22_FGENES.330_8	2.44	NCI-H69, NCI-H345, PRSC_log NCI-H345, RPWE-2, PRSC_log
	F12998 AW502257	Hs.90790	ESTs EST cluster (not in UniGene)	2.44 2.44	NCI-H345, PRSC_con, RPWE-2
337114			CH22_FGENES.494-17	2.44	NCI-H69, PRSC_log, PRSC_con
336087			CH22_FGENES.688_16	2.44	PRSC_con, Caco2, PRSC_log
	Al657119	Hs.120036		2.44	NCI-358, PC3, NCI-H23
333258	V00505	U- 00077	CH22_FGENES.118_6	2.44	MB-MDA-231, HT29, CALU6 MB-MDA-435s, MCF7, MB-MDA-453
	V00505 AW268822	Hs.36977	hemoglobin; delta EST singleton (not in UniGene) with exon	2.44 2.44	MB-MDA-453, EB, MCF7
	A1122843		EST cluster (not in UniGene)	2.44	PC3, OVCA-R, DU145
	AL133656		EST cluster (not in UniGene)	2.44	DU145, CALU6, CALU6
338151			CH22_EM:AC005500.GENSCAN.207-5	2.44	PRSC_con, PRSC_log, RPWE-2
327056	*****		CH.21_hs gi[6531965	2.44	PRSC_con, NCI-H345, RPWE-2
	AW182800		EST singleton (not in UniGene) with exon CH22_FGENES.610_3	2.43	NCI-358, NCI-H23, NCI-H520 PRSC_con, PRSC_log, NCI-H345
335783 325790			CH.14_hs gi[6381957	2.43 2.43	MB-MDA-435s, MB-MDA-453, MB-MDA-453
339342			CH22_BA354112.GENSCAN.27-10	2.43	BT474, MB-MDA-231, MB-MDA-453
335777			CH22_FGENES.607_13	2.43	DU145, EB, BT474
		Hs.257283		2.43	MCF7, MB-MDA-453, OVCA-R
	AI798009		EST singleton (not in UniGene) with exon	2.43	NCIH345, PRSC_con, PRSC_log DU145, PC3, CALU6
338087	Al124518		CH22_EM:AC005500.GENSCAN.174-16 EST singleton (not in UniGene) with exon	2.43 2.43	NCI-H69, MCF7, BT474
	AW409728	Hs.80449	ESTs; Weakly similar to cytoplasmic dyne	2.43	RPWE-2, A549, NCI-H69
-	AA157834		EST singleton (not in UniGene) with exon	2.43	MB-MDA-453, PC3, OVCA-R
320638	R54766	Hs.101120	ESTs	2.43	MCF7, MB-MDA-435s, MB-MDA-453

335281			CHOO ECENES 504 A	2.43	PC3 LeCon A540
	AI675790	Hs 132453	CH22_FGENES.524_4 FSTs	2.43 2.43	PC3, LnCap, A549 NCI-H345, RPWE-2, PRSC_log
	AA988891		EST singleton (not in UniGene) with exon	2.43	OVCA-R, EB, DU145
333298			CH22_FGENES.133_4	2.43	EB, DU145, PC3
328436			CH.07_hs gi 5868417	2.43	EB, LnCap, A549
333420		•	CH22_FGENES.146_11	2.43	NCI-H345, NCI-H69, PRSC_log
338113 335188			CH22_EM:AC005500.GENSCAN.188-13	2.42	DU145, EB, CALU6
329164			CH22_FGENES.507_3 CH.X_hs gij5868691	2.42 2.42	EB, A549, BT474 RPWE-2, PRSC_con, PRSC_log
336316			CH22_FGENES.799_11	2.42	MB-MDA-435s, MCF7, NCI-H69
	Al927594	Hs.161142		2.42	NCI-H345, PRSC_con, PRSC_log
327334			CH.01_hs gij5902477	2.42	MB-MDA-453, MB-MDA-435s, MCF7
334017			CH22_FGENES.315_2	2.42	PRSC_con, PRSC_log, RPWE-2
	AI494446		EST singleton (not in UniGene) with exon	2.42	DU145, LnCap, EB
333074	AA993109		CH22_FGENES.76_10	2.42	NCI-H69, RPWE-2, PRSC_log
336516	MM3331U3		EST singleton (not in UniGene) with exon CH22_FGENES.836_1	2.42 2.42	HT29, CALU6, LnCap NCI-H69, PRSC_con, PRSC_log
	AI042387		EST singleton (not in UniGene) with exon	2.42	CALU6, DU145, EB
329411			CH.X_hs gi[6682549	2.42	OVCA-R, EB, LnCap
	Al750091		EST singleton (not in UniGene) with exon	2.41	EB, DU145, CALU6
	Al190405	Hs.143127		2.41	DU145, EB, CALU6
326073			CH.17_hs gi]6682495	2.41	DU145, A549, MB-MDA-435s
334047 325464			CH22_FGENES.326_5	2.41	PRSC_con, PRSC_log, NCI-H345
334764			CH.12_hs gi 5866947 CH22_FGENES.428_13	2.41 2.41	NCI-358, NCI-H23, NCI-H460 NCI-H69, NCI-H345, RPWE-2
	AI033500	Hs.132895		2.41	OVCA-R, DU145, CALU6
	Al000248		EST singleton (not in UniGene) with exon	2.41	MB-MDA-231, MCF7, DU145
333582	•		CH22_FGENES.201_2	2.41	NCI-H69, PRSC_con, PRSC_log
337843			CH22_EM:AC005500.GENSCAN.30-8	2.4	EB, LnCap, A549
335284	*****		CH22_FGENES.526_6	2.4	NCI-H69, NCI-H345, PRSC_log
335527	AA653159		EST singleton (not in UniGene) with exon	2.4	DU145, HT29, MB-MDA-453
336795			CH22_FGENES.572_7 CH22_FGENES.176-5	2.4 2.4	DU145, OVCA-R, EB NCI-H69, NCI-H345, PRSC_log
	AF202889		EST	2.4	PRSC_con, PRSC_log, NCI-H69
334948			CH22_FGENES.465_15	2.4	PRSC_con, PRSC_log, RPWE-2
328860			CH.07_hs gi[6381928	2.4	PRSC_con, PRSC_log, NCI-H345
	Al365585	Hs.146246		2.4	NCI-H460, A549, HT29
333561			CH22_FGENES.180_18	2.4	OVCA-R, EB, DU145
338239	A1 040444	Un 464769	CH22_EM:AC005500.GENSCAN.264-5	2.4	NCI-H69, NCI-H345, PRSC_con
	AA873085	US' 10 1100	ESTs; Weakly similar to KIAA0738 protein EST singleton (not in UniGene) with exon	2.4 2.4	DU145, MB-MDA-453, EB MCF7, A549, NCHH520
	AW297673	Hs.190526		2.4	LnCap, NCI-H460, NCI-H23
334470			CH22_FGENES.394_1	2.4	NCI-H520, HT29, NCI-H23
333272			CH22_FGENES.122_1	2.39	NCI-H345, PRSC_con, RPWE-2
	AW518383	Hs.177592	ribosomal protein; large; P1	2.39	DU145, CALU6, EB
337316	Al914939	Lia 212404	CH22_FGENES.692-1	2.39	MCF7, BT474, OVCA-R
336280	VI9 14909	113.212104	CH22_FGENES.763_4	2.39 2.39	PRSC_con, NCI-H345, RPWE-2 NCI-H345, PRSC_log, PRSC_con
	T98872	Hs.194181		2.39	DU145, HT29, PC3
337172			CH22_FGENES.565-2	2.39	EB, OVCA-R, DU145
300625	Al671992	Hs.143631	ESTs; Weakly similar to WASP-family prot	2.39	EB, NCI-H520, LnCap
337092			CH22_FGENES.465-12	2.39	PRSC_con, PRSC_log, NCI-H69
334528			CH22_FGENES.402_8	2.39	NCI-H345, PRSC_con, NCI-H69
338411	AA357927	以って0200	CH22_EM:AC005500.GENSCAN.341-7 EST8	2.39 2.39	NCI-H345, NCI-H69, PRSC_con PC3, EB, A549
334044	MN331321	113.70200	CH22_FGENES.323_2	2.38	MB-MDA-231, MCF7, LnCap
333918			CH22_FGENES.296_7	2.38	RPWE-2, NCI-H345, EB
317168	AI042614	Hs.125910		2.38	NCI-H345, PRSC_con, RPWE-2
333424			CH22_FGENES.147_4	2.38	DU145, MCF7, OVCA-R
	AW450515			2.38	EB, DU145, OVCA-R
	A1380577			2.38	OVCA-R, EB, CALU6
	AW270515		ESTs; Weakly similar to centaurin beta2	2.38 2.38	NCI-H460, NCI-H23, NCI-H23 PRSC con, RPWE-2, NCI-H345
	AA670431	115.220010	EST singleton (not in UniGene) with exon	2.38	MB-MDA-453, MB-MDA-231, A549
337760			CH22_EM:AC000097.GENSCAN.116-8	2.38	PRSC_con, PRSC_log, RPWE-2
311502	AW204380	Hs.208662		2.38	NCI-H345, NCI-H69, LnCap
337548			CH22_FGENES.844-5	2.38	MB-MDA-453, MCF7, CALU6
326981	41446666		CH.21_hs gi[6588016	2.38	NCI-H345, NCI-H69, PRSC_con
	AW182066		EST singleton (not in UniGene) with exon	2.37	RPWE-2, NCI-358, NCI-H69
328936 327937			CH.08_hs gij5868500 CH.06_hs gij5868192	2.37 2.37	OVCA-R, MB-MDA-453, CALU6 BT474, EB, OVCA-R
328282			CH.07_hs gij5868353	2.37 .	DU145, CALU6, CALU6
	AL046388	Hs.208206	ESTs; Weakly similar to Naf1 alpha prote	2.37	LnCap, PRSC_log, NCI-H345
	N94974		ribosomal protein S4; X-linked	2.37	EB, PC3, OVCA-R
	AW452279			2.37	OVCA-R, CALU6, CALU6
325026	AI671168	MS.12285	ES18	2.37	NCI-H345, PRSC_con, PRSC_log

245045	AICEOGGO	U= 400000	FOT-	0.07	NO NO A 450 NO NO A 004 LaCon
328662	AI659989	MS. 132625	CH.07_hs qij6004473	2.37 2.37	MB-MDA-453, MB-MDA-231, LnCap NCI-H345, RPWE-2, PRSC_con
	AA864572		EST singleton (not in UniGene) with exon	2.37	MCF7, MB-MDA-453, MB-MDA-231
333296	741004012		CH22_FGENES.132_3	2.37	EB, PC3, CALU6
	R01116	Hs.182059		2.36	OVCA-R, MB-MDA-453, A549
333698			CH22_FGENES.250_12	2.36	HT29, OVCA-R, Caco2
316423	AA758756	Hs.121380		2.36	HT29, MCF7, MB-MDA-435s
	AL121194	Hs.120589	ESTs	2.36	PC3, NCI-H460, DU145
	Z43296	Hs.18720	programmed cell death 8 (apoptosis-induc	2.36	OVCA-R, A549, MB-MDA-453
334237		11 44-000	CH22_FGENES.362_1	2.36	NCI-H345, NCI-H69, LnCap
	AI700148	HS.117328		2.36	MCF7, NCI-H345, DU145
326884 333132			CH.20_hs gij6682511	2.36	A549, EB, PC3
	AA995719	He 76067	CH22_FGENES.83_8 heat shock 27kD protein 1	2.36 2.36	NCI-H69, HT29, EB RPWE-2, PRSC_log, PRSC_con
	AI669524			2.36	NCI-H345, RPWE-2, PRSC_con
329496			CH.10_p2 gij3983518	2.35	HT29, MCF7, MB-MDA-231
320994	H22381		EST cluster (not in UniGene)	2.35	NCI-H23, A549, CALU6
		Hs.24372	ESTs; Weakly similar to dJ207H1.1 [H.sap	2.35	PRSC_con, RPWE-2, PRSC_log
	AW444488		EST singleton (not in UniGene) with exon	2.35	NCI-H345, PRSC_con, PRSC_log
327009			CH.21_hs gi 5867664	2.35	HT29, BT474, MCF7
	AW172821	Hs.181165	eukaryotic translation elongation factor	2.35	HT29, DU145, EB
335468	A A 0 0 0 0 0 0		CH22_FGENES.567_4	2.35	NCI-H69, PRSC_con, NCI-H345
	AA069029 AA865649		EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon	2.35 2.35	PRSC_con, PRSC_log, RPWE-2 A549, MCF7, OVCA-R
	AA815428		EST singleton (not in UniGene) with exon	2.35	PRSC_con, NCI-H345, PRSC_log
326423	101010120		CH.19_hs gij5867369	2.34	PC3, MCF7, LnCap
334560			CH22_FGENES.404_3	2.34	HT29, NCI-H460, MB-MDA-435s
337100			CH22_FGENES.472-3	2.34	PRSC_log, PRSC_con, RPWE-2
301505	AW014374	Hs.144849		2.34	CALU6, MB-MDA-231, DU145
	AW298359	Hs.221069	ESTs	2.34	PRSC_con, RPWE-2, PRSC_log
	AA845035		EST singleton (not in UniGene) with exon	2.34	NCI-H23, NCI-H520, NCI-H460
338686			CH22_EM:AC005500.GENSCAN.472-5	2.33	BT474, MB-MDA-231, MB-MDA-453
	AA465207			2.33	OVCA-R, A549, MB-MDA-435s
336089	M79114	Hs.135177	-i.i	2.33	NCI-H69, PRSC_con, NCI-H345
338952			CH22_FGENES.688_18 CH22_DJ32110.GENSCAN.23-22	2.33 2.33	PRSC_con, Caco2, PRSC_log
334612			CH22_FGENES.411_11	2.33	PC3, OVCA-R, HT29 OVCA-R, MB-MDA-453, EB
338223			CH22_EM:AC005500.GENSCAN.250-10	2.33	DU145, MB-MDA-453, MCF7
327845			CH.05_hs gij6531962	2.32	OVCA-R, MB-MDA-453, PC3
308187	AI538108	Hs.156110	Immunoglobulin kappa variable 1D-8	2.32	NCI-H69, NCI-358, PRSC_con
		Hs.128340	ESTs; Weakly similar to Cdc42 GTPase-act	2.32	BT474, CALU6, MB-MDA-231
330468		Hs.112341	protease inhibitor 3; skin-derived (SKAL	2.32	PC3, Ca∞2, HT29
	R17712	11- 400000	EST cluster (not in UniGene)	2.32	MCF7, PC3, MB-MDA-453
303148	AI066733	Hs.133865		2.32	CALU6, MB-MDA-231, DU145
	AW250314	ns. 12/31/	ESTs; Weakly similar to CYTOCHROME P45 EST	2.32	2.32 NCI-H345, PRSC_con, RPWE-2 NCI-H345, PRSC_con, PRSC_log
	H10477	Hs.196208	ESTs; Weakly similar to IIII ALU SUBFAMI	2.32	NCI-H69, LnCap, NCI-H345
336653			CH22_FGENES.33-4	2.32	DU145, EB, LnCap
333329			CH22_FGENES.138_22	2.32	DU145, BT474, MB-MDA-231
301980	U69962	Hs.121498	potassium voltage-gated channel; Shab-re	2.31	NCI-H345, MB-MDA-231, LnCap
336968			CH22_FGENES.375-28	2.31	HT29, BT474, EB
	Al694191		EST singleton (not in UniGene) with exon	2.31	NCI-H345, NCI-H69, PRSC_log
326417 328851			CH.19_hs gi 5867362	2.31	HT29, MCF7, BT474
329254			CH.07_hs gij6381923 CH.X_hs gij5868733	2.31 2.31	NCI-H520, NCI-H460, NCI-H23 RPWE-2, NCI-H345, PRSC_con
	W88779	Hs.59125	ESTs	2.3	DU145, OVCA-R, EB
335131		1.0.00	CH22_FGENES.497_15	2.3	NCI-H69, NCI-H345, PRSC_tog
	AA308334	Hs.172210	MUF1 protein	2.3	LnCap, DU145, HT29
327067			CH.21_hs gi 6531965	2.3	NCI-H345, NCI-H69, MB-MDA-435s
	AW137650		EST cluster (not in UniGene)	2.3	DU145, HT29, EB
325965			CH.16_hs gij5867147	2.3	NCI-H69, NCI-H345, RPWE-2
334525			CH22_FGENES.402_4	2.3	NCI-H345, PRSC_con, NCI-H69
336654	AE400770	Un 404000	CH22_FGENES.34-2 WNT1 inducible signaling pathway protein	2.3	BT474, PC3, MB-MDA-453 LnCab, CALU6, DU145
	AI989570	ПS. 19400U	EST singleton (not in UniGene) with exon	2.3 2.3	NCI-H460, NCI-H23, NCI-H520
329246	11000010		CH.X_hs gij5868732	2.3	NCI-H69, NCI-H345, PRSC_log
	AA774834		EST singleton (not in UniGene) with exon	2.3	CALU6, CALU6, MCF7
	AA084941		EST duster (not in UniGene)	2.3	MB-MDA-231, CALU6, EB
318683	Al703241	Hs.202653	ESTs; Weakly similar to Xin [M.musculus]	2.29	NCI-H345, PRSC_con, RPWE-2
	Al971416		EST singleton (not in UniGene) with exon	2.29	CALU6, OVCA-R, EB
	AI860692	Hs.119122	ribosomal protein L13a	2.29	MB-MDA-435s, MCF7, HT29
335827			CH22_FGENES.620_1	2.29	PRSC_con, PRSC_log, RPWE-2
334066	VIVISUSUUE	He 22000F	CH22_FGENES.327_21	2.29	PRSC_con, PRSC_log, NCI-H345 NCI-H23, Caco2, CALU6
	AW293005 Al872290		immunoglobulin gamma 3 (Gm marker)	2.29 2.29	CALU6, A549, NCI-H69
333607		. ~. 170	CH22_FGENES.216_2	2.29	OVCA-R, MCF7, A549
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225474			OURS FORMER FOA A	2.20	HT29, A549, MB-MDA-453
335174	A A 400C00	Un 424400	CH22_FGENES.504_4 ESTs: Weakly similar to Dim1p homolog [H	2.29 2.29	
336417	AA46300U	MS. 1344U0			EB, A549, DU145
	A A DE 4 4 D 4		CH22_FGENES.823_39	2.29	NCI-H69, NCI-H345, PRSC_log HT29, MB-MDA-231, BT474
	AA251401		EST duster (not in UniGene)	2.29	
336618	A1400720	Un 440400	CH22_FGENES.2-1	2.29 2.29	NCI-358, NCI-H460, NCI-H69
	W100133	Hs.148488			NCHH345, PRSC_tog, PRSC_con
334055 337168			CH22_FGENES.327_6	2.28	DU145, OVCA-R, MB-MDA-453 NCI-H69, PRSC_log, NCI-H345
329824			CH22_FGENES.562-28	2.28 2.28	NCI-H23, CALU6, RPWE-2
333891			CH.14_p2 gij6630758	2.28	NCI-H69, MB-MDA-231, RPWE-2
339127			CH22_FGENES.292_13	2.28	PRSC_con, NCI-H345, RPWE-2
	AA812726		CH22_DA59H18.GENSCAN.55-1	2.28	NCI-H520, NCI-H23, NCI-H460
329782	AAG 12/20		EST singleton (not in UniGene) with exon	2.28	NCI-H69, NCI-H345, PRSC_log
	A1040004	Hs.175346	CH.14_p2 gI[5912597	2.28	MCF7, BT474, MB-MDA-435s
336934	Alo IUUU I	IIS. 170040		2.28	BT474, HT29, MB-MDA-435s
	AA761093		CH22_FGENES.351-1	2.28	
	N72574	Un E0220	EST cluster (not in UniGene)	2.28	OVCA-R, HT29, DU145 A549, MCF7, NCI-358
	AA258559	Hs.50220	ESTs ESTs; Weakly similar to DELTA-LIKE PROTE		MB-MDA-231, CALU6, MCF7
338285	MAZJOJJJ	Hs.3736	CH22_EM:AC005500.GENSCAN.293-3	2.27	NCI-H69, PRSC_log, PRSC_con
	Al245127	Hs.179331	_	2.27	NCI-H23, NCI-H520, NCI-358
300194	AA000070	Ho 402000	ribosomal protein L29	2.27	RPWE-2, NCI-H345, PRSC_log
	A1884454	NS. 103030	EST singleton (not in UniGene) with exon	2.27	A549, MCF7, BT474
332995	A1004434			2.27	RPWE-2, NCI-H345, PRSC_log
337426			CH22_FGENES.58_2	2.27	DU145, EB, CALU6
			CH22_FGENES.761-3		NCI-H69, PRSC_con, PRSC_log
337778 329705			CH22_EM:AC000097.GENSCAN.119-20	2.27 2.27	PRSC_con, PRSC_log, RPWE-2
335971			CH.14_p2 gij6065790	2.27	PRSC_log, MB-MDA-231, NCI-H23
	A107E04C	Hs.133996	CH22_FGENES.652_4	2.27	HT29, MB-MDA-435s, OVCA-R
	AI911204	Hs.126365		2.27	NCI-H460, NCI-358, BT474 NCI-H345, NCI-H69, PRSC_con
334430	A A 450057	Un 00070	CH22_FGENES.385_3	2.27	- '' - ' - ' - ' - ' - ' - ' - ' - ' -
		Hs.99272		2.26	PRSC_con, LnCap, PRSC_log
		Hs.153019		2.26	NCI-H345, PRSC_log, NCI-H520
		Hs.190518		2.26 2.26	NCI-H345, PRSC_con, PRSC_log
	AA928363		EST singleton (not in UniGene) with exon		NCI-H345, PRSC_con, PRSC_log
304134	H04021		EST singleton (not in UniGene) with exon	2.26	DU145, CALU6, PC3
335421	A AC70000	U- 450440	CH22_FGENES.551_1	2.26	NCI-H69, PRSC_con, PRSC_log
		ms. 150 I IU	Immunoglobulin kappa variable 1D-8	2.26	NCI-H345, NCI-H69, PRSC_con
	AA421129	Un 400007	EST	2.26	CALU6, OVCA-R, DU145
	A1004985	Hs.130607		2.26	PC3, MB-MDA-435s, A549
325304			CH.11_hs gl 5866910	2.26	MCF7, CALU6, A549
334118			CH22_FGENES.330_19	2.26	PRSC_con, NCI-H69, PRSC_log
335687			CH22_FGENES.596_2	2.26	A549, CALU6, LnCap
334035	A 4720 442		CH22_FGENES.322_3	2.26	NCI-H345, PRSC_con, RPWE-2
	AA738413		EST singleton (not in UniGene) with exon	2.25	EB, HT29, CALU6
335902			CH22_FGENES.635_10	2.25	EB, DU145, HT29
339215			CH22_FF113D11.GENSCAN.6-10	2.25	PRSC_con, PRSC_log, RPWE-2 PC3, OVCA-R, MB-MDA-453
328810			CH.07_hs gij5868327	2.25	
337396			CH22_FGENES.749-1	2.25	EB, A549, DU145
336808	AA853958		CH22_FGENES.205-3	2.25	NCI-H345, NCI-H69, PRSC_con
	MAODOSSOO		EST singleton (not in UniGene) with exon	2.24	MB-MDA-453, DU145, EB
333571	A A 20E 400	U- 050530	CH22_FGENES.188_2	2.24	MCF7, MB-MDA-453, PC3
334626	AA220100	Hs.258539	CH22_FGENES.416_2	2.24	EB, DU145, CALU6 NCH469, NCH4345, PRSC_log
				2.24	NCH-169, NCI-H345, PRSC_con
333593			CH22_FGENES.210_2	2.24	
326708	A1044747	Un 420444	CH.20_hs gi 5867593	2.24	NCI-H460, NCI-H23, NCI-H520 NCI-H345, RPWE-2, PRSC_con
	AI041717	Hs.132141		2.23	
	AI951727	11- 447700	EST singleton (not in UniGene) with exon	2.23	PRSC_con, PC3, MB-MDA-231
	H56196	Hs.117798		2.23	EB, EB, DU145 CALU6, CALU6, MB-MDA-453
333632			CH22_FGENES.227_3	2.23	
328243			CH.06_hs gi 6056292	2.23	PC3, LnCap, LnCap LnCap, DU145, EB
327037	Al222985		CH.21_hs gli6531965	2.23 2.23	NCI-H345, PRSC_con, PRSC_log
	MIZZZSOS		EST singleton (not in UniGene) with exon		PRSC_log, NCI-H345, RPWE-2
334766 335236			CH22_FGENES.428_15 CH22_FGENES.515_8	2.23 2.23	OVCA-R, MCF7, BT474
336615				2.23	NCI-H69, PRSC_log, PRSC_con
	Al281998		CH22_FGENES.613_5 EST standard (not in UniCone) with even	2.23	DU145, OVCA-R, CALU6
	AIZ61996 AI457115	Hs.62954	EST singleton (not in UniGene) with exon	2.23	EB, OVCA-R, MB-MDA-453
	N47559	Hs.46732	ferritin; heavy polypeptide 1 EST	2.23	MB-MDA-453, MCF7, BT474
				2.23	OVCA-R, EB, EB
		113.2 14 142	5;10-methylenetetrahydrofolate reductase	2.23	BT474, MB-MDA-435s, MB-MDA-231
	AA010976 AI190864	Ho 170222	EST singleton (not in UniGene) with exon ESTs; Weakly similar to !!!! ALU SUBFAM!	2.23	MB-MDA-231, MCF7, OVCA-R
	Al624301	113.170220		2.22	OVCA-R, BT474, CALU6
		Hs.169604	EST singleton (not in UniGene) with exon	2.22	DU145, EB, A549
	ATTEU/03/	113, 103004		2.22	NCI-H69, PRSC_log, PRSC_con
327864 337279			CH.06_hs gij5868130 CH22_FGENES_666_2	2.22	NCI-H345, NCI-H69, PRSC_con
303363	AA325517		CH22_FGENES.665-2 EST	2.22	BT474, NCI-H520, DU145
JUZZO				~.££	U 111101 110011 00 110

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322840	AA083710		EST cluster (not in UniGene)	2.22	HT29, MB-MDA-453, CALU6
	A1283549		EST singleton (not in UniGene) with exon	2.22	OVCA-R, CALU6, BT474
319027	AA716612		EST cluster (not in UniGene)	2.22	LnCap, NCI-H69, NCI-H69
	AA877883		EST singleton (not in UniGene) with exon	2.22	NCI-H345, NCI-H69, NCI-H69
329725			CH.14_p2 gip6065785	2.22	NCI-H69, PRSC_con, NCI-H345
	AW298529	Hs.255774		2.22	CALU6, EB, NCI-H520
	AF142579		EST	2.22	A549, OVCA-R, EB
333815			CH22_FGENES.282_4	2.22 2.22	MB-MDA-435s, EB, MB-MDA-453
334358	AE0422E0	Nº 30030	CH22_FGENES.378_1		NCI-H345, RPWE-2, PRSC_con Cacc2, NCI-H23, NCI-H520
335593	AF043250	HS.30920	DNA segment on chromosome 19 (unique) 11 CH22_FGENES.581_32	2.21	NCI-H345, PRSC_log, RPWE-2
334026			CH22_FGENES.318_3	2.21	NCI-H69, PRSC_con, NCI-H345
	AF086064		EST cluster (not in UniGene)	2.21	PRSC_con, PRSC_log, RPWE-2
	AW295497	Hs.157397		2.21	NCI-H345, PRSC_con, RPWE-2
	M33374	Hs.661	NADH dehydrogenase (ubiquinone) 1 beta s		NCI-H520, CALUS, OVCA-R
307629	Al300246		EST singleton (not in UniGene) with exon	2.21	MB-MDA-231, MB-MDA-453, HT29
300470	T87841		EST	2.21	PC3, EB, CALU6
330064			CH.19_p2 gi[6165044	2.21	NCI-H69, PRSC_con, BT474
338819			CH22_DJ246D7.GENSCAN.1-24	2.21	NCI-H69, RPWE-2, PRSC_log
337797			CH22_EM:AC005500.GENSCAN.3-4	2.21	LnCap, NCI-H69, NCI-H520
328025			CH.06_hs gli5902482	2.2	RPWE-2, PRSC_con, PRSC_log
326240	AVAMOROTO	Un 472200	CH.17_hs gi 5867260	2.2 2.2	EB, LnCap, MB-MDA-453
	AW005376	MS.173280		2.2	DU145, DU145, OVCA-R MCF7, MB-MDA-453, MB-MDA-435s
338450	U60181	We 2/8115	CH22_EM:AC005500.GENSCAN.359-36 growth hormone secretagogue receptor	2.2	PRSC_con, PRSC_log, PRSC_log
	AA081495	113.240113	EST cluster (not in UniGene)	2.2	NCI-H23, NCI-H520, NCI-358
337787	77001733		CH22_EM:AC000097.GENSCAN.123-3	2.2	EB, PC3, LnCap
337032			CH22_FGENES.438-3	2.2	NCI-H69, NCI-H345, RPWE-2
	M11507		AFFX control: transferrin receptor	2.2	HT29, EB, MB-MDA-231
333139			CH22_FGENES.83_16	2.2	HT29, MB-MDA-453, Caco2
334298			CH22_FGENES.372_4	2.2	PRSC_con, PRSC_log, RPWE-2
335002			CH22_FGENES.470_7	2.2	PRSC_con, NCI-H345, NCI-H345
335000			CH22_FGENES.470_5	2.2	EB, PC3, A549
337298			CH22_FGENES.678-3	2.2	NCI-H69, A549, HT29
	AF104253	Hs.241381	cofactor required for Sp1 transcriptiona	2.2	EB, CALU6, LnCap
334819	*****	050000	CH22_FGENES.436_15	2.19	CALU6, BT474, Caco2
	AW452660	HS.253296		2.19	DU145, CALU6, HT29
339401	AC004472		multiple UniGene matches CH22_BA232E17.GENSCAN.7-7	2.19 2.19	RPWE-2, PRSC_log, PRSC_con NCI-H345, NCI-H69, PRSC_log
328791			CH.07_hs gij5868309	2.19	DU145, PC3, HT29
337333			CH22_FGENES.711-3	2.19	NCI-H69, NCI-H345, PRSC_log
339363			CH22_BA354I12.GENSCAN.33-6	2.19	NCI-H69, PRSC_log, PRSC_con
329429			CH.Y_hs gi 5868882	2.19	CALU6, HT29, OVCA-R
336927			CH22_FGENES.348-3	2.19	NCI-H69, PRSC_log, NCI-358
336351			CH22_FGENES.816_3	2.19	DU145, EB, MB-MDA-231
	AA004731	Hs.148876		2.19	CALU6, DU145, OVCA-R
	A1244895		EST singleton (not in UniGene) with exon	2.19	NCI-H23, NCI-H23, NCI-358
336590			CH22_FGENES.51_2	2.19	PRSC_con, NCI-H69, PRSC_log
	A1770001	Hs.209445		2.18	EB, MB-MDA-231, BT474
327823	NOGOGO		CH.05_hs gi 5867968	2.18	PRSC_con, NCI-H69, NCI-H345 PRSC_log, RPWE-2, PRSC_con
335377	N92638		EST cluster (not in UniGene) CH22_FGENES.543_17	2.18 2.18	PC3, MB-MDA-435s, CALU6
	AL042931		EST singleton (not in UniGene) with exon	2.18	NCH1345, RPWE-2, PRSC_con
		Hs 120360	phospholipase A2; group VI	2.18	LnCap, PC3, MB-MDA-435s
335201	001001	110.120000	CH22_FGENES.508_10	2.18	OVCA-R, DU145, HT29
338591			CH22_EM:AC005500.GENSCAN.434-4	2.18	NCI-H69, NCI-H345, RPWE-2
	AA455960	Hs.99405	ESTs	2.18	MCF7, NCI-H23, NCI-H460
337218			CH22_FGENES.614-2	2.18	CALU6, A549, MCF7
309470	AW118833		EST singleton (not in UniGene) with exon	2.18	PC3, EB, MB-MDA-435s
331896	AA435495	Hs.97174	H sapiens mRNA; cDNA DKFZp566E164 (fro	m	2.18 RPWE-2, NCI-H69, PRSC_log
330275			CH.05_p2 gij6671904	2.18	NCI-H345, PRSC_log, PRSC_con
335817			CH22_FGENES.618_5	2.18	A549, Caco2, PC3
332896			CH22_FGENES.35_10	2.18	NCI-H345, RPWE-2, PRSC_log
	AA205300		EST .	2.17	MB-MDA-435s, A549, MCF7
338703	A1045044	Un 200420	CH22_EM:AC005500.GENSCAN.480-2	2.17	HT29, BT474, NCI-H69
	Al215044	Hs.208130		2.17	PC3, OVCA-R, HT29 MCF7, EB, MB-MDA-435s
	H22466 AW105092	Hs.31795		2.17 2.17	MB-MDA-453, DU145, EB
329078	A11 100032	113.130030	CH.X_hs gli5868597	2.17	MB-MDA-453, MB-MDA-231, BT474
	AI222630	Hs.109390		2.17	NCI-H520, OVCA-R, MCF7
		Hs.192201		2.17	NCHH69, NCI-H345, PRSC_log
			alpha-1-B glycoprotein	2.17	PRSC_con, LnCap, PRSC_log
329097			CH.X_hs gi[5868624	2.16	MB-MDA-231, MCF7, NCI-358
328328			CH.07_hs gij5868375	2.16	NCLH345, PRSC_con, NCLH69
	AA522440	Hs.135917	ESTs	2.16	BT474, DU145, A549
329201			CH.X_hs gi[5868718	2.16	OVCA-R, PC3, MB-MDA-435s

329902			OU 45 -0 -11002/700	2.16	PRSC_con, NCI-H69, NCI-H345
334435			CH.15_p2 gij6634760 CH22_FGENES.385_10	2.16	PRSC_con, NCI-H345, RPWE-2
	AA400979	Hs 25691	calcitonin receptor-like receptor activi	2.16	MCF7, MB-MDA-453, PC3
328484	701100070	110.20001	CH.07_hs gij5868454	2.16	NCI-H69, PRSC_log, NCI-H345
334784			CH22_FGENES.432_9	2.16	PRSC_log, RPWE-2, PRSC_con
337771			CH22_EM:AC000097.GENSCAN.119-10	2.16	NCI-H69, PRSC_can, RPWE-2
300181	AI284955	Hs.157568	ESTs; Wealdy similar to ataxin-2 [M.musc	2.16	DU145, EB, CALU6
		Hs.245450		2.16	PRSC_con, RPWE-2, PRSC_log
	AW168096	Hs.195188	glyceraldehyde-3-phosphate dehydrogenase		A549, NCI-H23, MB-MDA-453
336548			CH22_FGENES.841_5	2.16	NCI-H345, NCI-H69, MB-MDA-231
328506			CH.07_hs glj5868471	2.16	EB, A549, CALU6
330189	A A 7.40000	11- 00044	CH.05_p2 gij6165182	2.16	NCI-H460, MCF7, MB-MDA-453
	AA746500 R56151	HS.25911	HLA-B associated transcript-2	2.16 2.16	EB, DU145, NCI-358 OVCA-R, MB-MDA-435s, PRSC_con
	AI004899		EST singleton (not in UniGene) with exon	2.16	PRSC_log, PRSC_con, NCI-H345
325887	A100-1000		CH.16_hs glj5867087	2.16	EB, CALU6, NCI-358
327015			CH.21_hs glj5867664	2.15	EB, PC3, HT29
338576			CH22_EM:AC005500.GENSCAN.429-1	2.15	NCI-H69, NCI-H345, PRSC_con
333592			CH22_FGENES.209_2	2.15	NCI-H69, OVCA-R, PRSC_con
	AW071241			2.15	MB-MDA-435s, NCI-H23, MB-MDA-453
	R67493	Hs.127150	ESTs; Weakly similar to ZINC FINGER PROT		PC3, MCF7, MB-MDA-435s
336858	. 10 10000		CH22_FGENES.293-8	2.15	RPWE-2, PRSC_con, NCI-H69
	A1640693	Hs.2186	eukaryotic translation elongation factor	2.15	EB, OVCA-R, CALU6
338177			CH22_EM:AC005500.GENSCAN.219-5	2.15	NCI-H345, NCI-H23, NCI-H520
337592 325945			CH22_C20H12.GENSCAN.6-7	2.15 2.15	PC3, A549, HT29 MB-MDA-453, MB-MDA-435s, DU145
335262			CH.16_hs gi 5867138 CH22_FGENES.520_3	2.15	EB, PC3, A549
333665			CH22_FGENES.244_1	2.15	PRSC_con, RPWE-2, PRSC_log
333710			CH22_FGENES.250_25	2.14	PRSC_log, NCI-H69, PRSC_con
	AA604728	Hs.195188	glyceraldehyde-3-phosphate dehydrogenase		LnCap, PC3, MCF7
336999			CH22_FGENES.417-20	2.14	NCI-H69, NCI-H345, PRSC_∞n
313283	W32480	Hs.157099	ESTs	2.14	EB, MB-MDA-231, A549
306221	AA928686		EST singleton (not in UniGene) with exon	2.14	NCI-H460, PRSC_con, NCI-H23
333205			CH22_FGENES.102_5	2.14	NCI-H69, PRSC_con, PRSC_Jog
	Al804218	Hs.209614		2.14	PRSC_con, NCI-H345, RPWE-2
328938			CH.08_hs glj5868500	2.14	HT29, PC3, MB-MDA-453
326746 337964			CH.20_hs gi[5867611	2.14 2.14	NCI-H345, NCI-H69, PRSC_con RPWE-2, PRSC_con, PRSC_log
337984			CH22_EM:AC005500.GENSCAN.100-9		
				7 1A	FR DI 045 NGI-H345
			CH22_EM:AC0005500.GENSCAN.110-2 CH22_EM:AC000097_GENSCAN.87-6	2.14 2.14	EB, DU145, NCI-H345 NCI-H69, NCI-H460, NCI-358
337704	AF119046		CH22_EM:AC000097.GENSCAN.87-6	2.14	NCI-H69, NCI-H460, NCI-358
337704 302162	AF119046 AA081755	Hs.8059	CH22_EM:AC000097.GENSCAN.87-6 EST	2.14 2.14	
337704 302162 303192	AF119046 AA081755 AA926816	Hs.8059	CH22_EM:AC000097.GENSCAN.87-6	2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-4359, PC3, EB
337704 302162 303192 306200	AA081755		CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV	2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453
337704 302162 303192 306200 303996 325409	AA081755 AA926816 AW515979	Hs.84298	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921	2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2
337704 302162 303192 306200 303996 325409 308558	AA081755 AA926816 AW515979 Al700145	Hs.84298 Hs.172182	CH22_EM:AC000097.GENSCAN.87-6 EST ESTS; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protain; cytoplasmic 1	2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s
337704 302162 303192 306200 303996 325409 308558 302185	AA081755 AA926816 AW515979 AI700145 AA243837	Hs.84298 Hs.172182	CH22_EM:AC000097.GENSCAN.87-6 EST ESTS; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protain; cytoplasmic 1 ESTs	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB
337704 302162 303192 306200 303996 325409 308558 302185 303021	AA081755 AA926816 AW515979 AI700145 AA243837 W39612	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTS; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2
337704 302162 303192 306200 303996 325409 308558 302185 303021 301005	AA081755 AA926816 AW515979 AI700145 AA243837	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29
337704 302162 303192 306200 303996 325409 308558 302185 303021 301005 336029	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST EST EST CH22_FGENES.672_4	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2
337704 302162 303192 306200 303996 325409 308558 302185 303021 301005 336029 305443	AA081755 AA926816 AW515979 AI700145 AA243837 W39612	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST EST CH22_FGENES.672_4 EST singleton (not in UniGene) with exon	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23
337704 302162 303192 306200 303996 325409 308558 302185 303021 301005 336029 305443 335485	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-H59, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7
337704 302162 303192 306200 303996 325409 308558 302185 303021 336029 305443 335485 304817	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST EST CH22_FGENES.672_4 EST singleton (not in UniGene) with exon	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-435, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, NCF7, NCI-H520 NCI-H69, PRSC_con, LnCap
337704 302162 303192 306200 303996 325409 308558 302185 303021 336029 305443 335485 304817	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712	Hs.84298 Hs.172182 Hs.156915	CH22_EM:AC000097.GENSCAN.87-6 EST ESTS; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protain; cytoplasmic 1 ESTS EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-435, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap
337704 302162 303192 306200 303956 325409 308558 302185 303021 301005 336029 305443 335481 309859 3026206 303656	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712	Hs.84298 Hs.172182 Hs.156915 Hs.210848	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CST singleton (not in UniGene) with exon CH.17_hs glj5867219 ESTs	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB
337704 302162 303192 305209 303996 325409 308558 302185 303021 301002 305443 335485 304817 309859 32626 303656 334745	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189	Hs.84298 Hs.172182 Hs.156915 Hs.210848	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST EST CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, B7474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-231, LnCap LnCap, MB-MDA-235s, EB OVCA-R, DU145, MB-MDA-453
337704 302162 303192 305200 303996 325409 308558 302185 303021 301002 305443 335485 304817 309859 326366 334745 318504	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453	Hs.84298 Hs.172182 Hs.156915 Hs.210848	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST ESTS EST ESTS EST ESTS EST STS:GENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon CH.17_hs gij5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene)	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-235, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6
337704 302162 303192 306200 303996 325409 308558 302185 303021 301005 336029 305443 335485 304817 309859 326266 30365 334745 318504 306839	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST EST ESTS EST ESTS EST EST singleton (not in UniGene) with exon CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon CH.17_hs gij5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) with exon EST singleton (not in UniGene)	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Iog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-H59, PRSC_con, RPWE-2 NCI-H58, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-435s
337704 302162 303192 306290 303996 325409 308558 302185 303021 301005 336029 305485 304817 309859 326206 303656 334745 436839 303843	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI0777385 W94322	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gijS866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon CH.17_hs gijS867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene) EST singleton (not in UniGene)	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-435s MB-MDA-435s, NCI-H345, RPWE-2
337704 302162 303192 305200 303996 325409 308558 302185 303025 301005 336029 305443 335485 304817 309859 226206 303656 334745 318504 3063843 3083444	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH.17_hs glj5867219 ESTS CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene)	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-435s MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474
337704 302162 303192 305200 303996 325409 308558 302185 303021 303029 305443 335485 304817 309852 304817 309856 334745 318504 306883 303843 3038444 301322	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI0777385 W94322	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST ESTs CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH.17_hs glj5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene) with exon melanoma inhibitory activity EST ESTs	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MS-MDA-453, MB-MDA-435s MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3
337704 302162 303192 305209 303996 325409 308558 302185 303021 305029 305443 335485 304817 309859 32626 334745 318504 308839 303843 308444 301322 326997	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon CH.17_hs glj5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene)	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-H369, PRSC_con, RPWE-2 NCI-H369, PRSC_con, LnCap NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-435s MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3 HT29, A549, CALU6
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337704 302162 303192 306200 303996 325409 308558 302185 303021 301005 336029 305443 335485 304817 309859 326206 334745 318504 306839 303843 308444 301322 326979 326793 320360	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097 Hs.256305	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST ESTS EST ESTS EST ESTS EST ESTS EST ingleton (not in UniGene) with exon CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon CH.17_hs gij5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene) EST ESTS CH.21_hs gij5867660 CH.20_hs gij5867631 EST cluster (not in UniGene)	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-35s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-453 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3 HT29, A549, CALU6 PRSC_log, PRSC_con, MB-MDA-453 MB-MDA-231, BT474, HT29 DU145, DU145, EB
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337704 302162 303192 305200 303996 325409 308558 302185 303005 336029 305443 335485 304817 309859 226206 303656 334745 318504 3083843 308344 301322 326997 326793 326306 316301 335371 301178 326360 335371 301178 326360 335213 335980	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398 AW448965 H12405 AW206279 AA828385	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097 Hs.256305	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs glj5866921 poly(A)-binding protein; cytoplasmic 1 ESTs EST EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH21_Fs glj5867219 EST cluster (not in UniGene) EST singleton (not in UniGene) EST singleton (not in UniGene) EST stingleton (not in UniGene) EST cluster (not in UniGene) EST CH.21_hs glj5867631 EST cluster (not in UniGene) EST CH22_FGENES.543_9 EST CH.17_hs glj5867202 CH.17_hs glj5867202 CH22_FGENES.653_2	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-453 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3 HT29, A549, CALU6 PRSC_log, PRSC_con, MB-MDA-453 MB-MDA-231, BT474, HT29 DU145, EB PC3, MB-MDA-435s, DU145 EB, OVCA-R, LnCap RPWE-2, PRSC_log, PRSC_con OVCA-R, PC3, MB-MDA-231 BT474, BT474, OVCA-R
337704 302162 303192 305200 303996 325409 308558 302185 303021 305029 305443 335485 304817 309856 334745 318504 306883 308444 301322 326997 326793 320360 335371 301178 326136 335213 301178 326136 335213 301178 326136 335213 335213 301178 326136	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398 AW448965 H12405 AW206279 AA828385	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097 Hs.256305	CH22_EM:AC000097.GENSCAN.87-6 EST ESTS; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protain; cytoplasmic 1 ESTS EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH12_FGENES.570_17 EST singleton (not in UniGene) with exon CH.17_hs gij5867219 ESTS CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene) EST singleton (not in UniGene) EST singleton (not in UniGene) EST sugleton (not in UniGene) EST ESTS CH.21_hs gij5867660 CH.20_hs gij5867631 EST cluster (not in UniGene) ESTS CH22_FGENES.543_9 EST CH.17_hs gij5867202 CH22_FGENES.653_2 ESTS	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_log, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-453 MB-MDA-435s, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3 HT29, A549, CALU6 PRSC_log, PRSC_con, MB-MDA-453 MB-MDA-431, BT474, HT29 DU145, DU145, EB PC3, MB-MDA-435s, DU145 EB, OVCA-R, LnCap RPWE-2, PRSC_log, PRSC_con OVCA-R, PC3, MB-MDA-231 BT474, BT474, OVCA-R PRSC_con, PRSC_log, RPWE-2
337704 302162 303192 305200 303996 325409 308558 302185 303021 305029 305443 335485 304817 309859 326206 303656 334745 318504 306883 3038444 301322 326997 326793 320360 335371 301178 326136 339213 3359213 3359213 3359213 335979	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398 AW448965 H12405 AW206279 AA828385	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097 Hs.256305	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH17_hs gij5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene) EST structure (not in UniGene) EST ESTS CH.21_hs gij5867660 CH.20_hs gij5867631 EST cluster (not in UniGene) EST CH22_FGENES.543_9 EST CH.17_hs gij5867202 CH22_FGENES.653_2 ESTS EST singleton (not in UniGene) with exon	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_Con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-435s MB-MDA-453, NCI-H345, RPWE-2 MB-MDA-453, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3 HT29, A549, CALU6 PRSC_Jog, PRSC_con, MB-MDA-453 MB-MDA-231, BT474, HT29 DU145, DU145, EB PC3, MB-MDA-231, BT474, HT29 DU145, DU145, EB PC3, MB-MDA-35s, DU145 EB, OVCA-R, LnCap RPWE-2, PRSC_Jog, PRSC_Con OVCA-R, PC3, MB-MDA-231 BT474, BT474, OVCA-R PRSC_Con, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2
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337704 302162 303192 305209 303996 325409 3030558 302185 303021 305029 305443 335485 304817 309859 326366 334745 318504 308839 303843 301328 301328 301528 301531 3	AA081755 AA926816 AW515979 AI700145 AA243837 W39612 AW451916 AA736653 AA584712 AW298760 AA437189 T26453 AI077385 W94322 AI659398 AW448965 H12405 AW206279 AA828385 AA758797 AI041302	Hs.84298 Hs.172182 Hs.156915 Hs.210848 Hs.122574 Hs.58094 Hs.197097 Hs.256305 Hs.192009	CH22_EM:AC000097.GENSCAN.87-6 EST ESTs; Highly similar to SYNAPTOTAGMIN IV EST singleton (not in UniGene) with exon CD74 antigen (invariant polypptd of majo CH.12_hs gij5866921 poly(A)-binding protain; cytoplasmic 1 ESTs EST EST ESTS CH22_FGENES.672_4 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH22_FGENES.570_17 EST singleton (not in UniGene) with exon CH17_hs gij5867219 ESTs CH22_FGENES.426_3 EST cluster (not in UniGene) EST singleton (not in UniGene) EST structure (not in UniGene) EST ESTS CH.21_hs gij5867660 CH.20_hs gij5867631 EST cluster (not in UniGene) EST CH22_FGENES.543_9 EST CH.17_hs gij5867202 CH22_FGENES.653_2 ESTS EST singleton (not in UniGene) with exon	2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	NCI-H69, NCI-H460, NCI-358 MB-MDA-435s, PC3, EB MB-MDA-435s, MB-MDA-435s, MB-MDA-453 MB-MDA-453, CALU6, DU145 LnCap, MB-MDA-231, BT474 PRSC_Jog, PRSC_con, RPWE-2 MCF7, EB, MB-MDA-435s MB-MDA-453, MCF7, EB PRSC_Con, NCI-H69, RPWE-2 DU145, EB, HT29 NCI-H69, PRSC_con, RPWE-2 NCI-358, NCI-H520, NCI-H23 NCI-H460, MB-MDA-435s, MCF7 MCF7, MCF7, NCI-H520 NCI-H69, PRSC_con, LnCap EB, MB-MDA-231, LnCap LnCap, MB-MDA-435s, EB OVCA-R, DU145, MB-MDA-453 RPWE-2, LnCap, CALU6 MCF7, MB-MDA-453, MB-MDA-435s MB-MDA-453, NCI-H345, RPWE-2 MB-MDA-453, NCI-H345, RPWE-2 MB-MDA-453, MCF7, BT474 NCI-H345, LnCap, PC3 HT29, A549, CALU6 PRSC_Jog, PRSC_con, MB-MDA-453 MB-MDA-231, BT474, HT29 DU145, DU145, EB PC3, MB-MDA-231, BT474, HT29 DU145, DU145, EB PC3, MB-MDA-35s, DU145 EB, OVCA-R, LnCap RPWE-2, PRSC_Jog, PRSC_Con OVCA-R, PC3, MB-MDA-231 BT474, BT474, OVCA-R PRSC_Con, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2 NCI-H345, PRSC_Jog, RPWE-2

303358	Al199714	Hs.158149	ESTs	2.11	CALU6, OVCA-R, DU145
306558	AA994743		EST singleton (not in UniGene) with exon	2.11	HT29, MB-MDA-453, CALU6
337781			CH22_EM:AC000097.GENSCAN.121-3	2.11	PRSC_log, PRSC_con, RPWE-2
333140			CH22_FGENES.84_1	2.11	HT29, NCH69, OVCA-R
	Al247134	Hs.155281		2.11	MB-MDA-453, MCF7, HT29
		Hs.138842	_	2.11	NCI-358, NCI-H23, CALU6
	N83965	11- 405055	EST	2.11	PRSC_log, PRSC_con, NCI-H345
	D83824	MS.185U55	BENE protein	2.11	A549, PC3, HT29
326418	AA565332		EST cluster (not in UniGene)	2.11 2.1	A549, CALU6, EB EB, OVCA-R, DU145
	AI783498	He 181165	CH.19_hs gl 5867365 eukaryotic translation elongation factor	2.1	MB-MDA-435s, MB-MDA-453, DU145
	C01852	Hs.84359	hypothetical protein	2.1	NCI-H23, A549, DU145
333283	OUTUDE	113,04000	CH22_FGENES.128_13	2.1	NCI-H345, RPWE-2, PRSC_con
328636			CH.07_hs gij6004473	2.1	DU145, EB, MB-MDA-453
329187			CH.X_hs gij5868713	2.1	NCI-358, NCI-H23, NCI-H460
305999	AA889603		EST singlaton (not in UniGene) with exon	2.1	HT29, OVCA-R, PC3
333220			CH22_FGENES.104_12	2.1	PRSC_con, PRSC_log, RPWE-2
335092			CH22_FGENES.492_2	2.1	NCI-H69, PRSC_con, NCI-H345
	AA599355		EST singleton (not in UniGene) with exon	2.1	DU145, EB, MCF7
325359			CH.12_hs gi 5866920	2.1	MB-MDA-453, EB, MB-MDA-435s
	H08730	Hs.6933	ESTs	2.1	NCI-H520, PRSC_con, NCI-H345
	AW449315	Hs.165795		2.1	OVCA-R, A549, LnCap
333619	A14/E02070		CH22_FGENES.219_3	2.1	BT474, OVCA-R, HT29
	AW502979 AA308601		EST cluster (not in UniGene) EST	2.09 2.09	CALU6, A549, DU145 DU145, CALU6, NCHH69
328570	AA30000 I		CH.07_hs gi 5868231	2.09	LnCap, MB-MDA-231, DU145
	AI871218	Hs.224731		2.09	NCI-H23, NCI-H460, NCI-358
	K02268	Hs.22584	prodynomhin	2.09	PC3, BT474, MB-MDA-453
334793			CH22_FGENES.433_5	2.09	EB. DU145, LnCap
	AA618335	Hs.146137	ESTs; Weakly similar to putative [C.eleg	2.09	NCI-H345, PRSC_log, PRSC_con
			glyceraldehyde-3-phosphate dehydrogenase	2.09	A549, NCI-H23, NCI-H460
			KIAA1118 protein	2.09	PRSC_con, PRSC_log, NCI-H345
	AW295351	Hs.169136		2.09	PC3, LnCap, MB-MDA-453
335693			CH22_FGENES.596_8	2.09	NCI-H69, LnCap, PRSC_log
325966			CH.16_hs gij5867147	2.09	MCF7, CALU6, MB-MDA-453
329319			CH.X_hs gi 6381976	2.09	NCI-H460, EB, DU145
338526			CH22_EM:AC005500.GENSCAN.396-14	2.09	NCI-H69, NCI-H345, PRSC_log
336751			CH22_FGENES.128-5	2.09 2.09	NCI-H69, NCI-H345, PRSC_log HT29, OVCA-R, CALU6
325510	AASOSSSS	Hs.122854	CH.12_hs gi[5866974	2.08	NCI-H345, RPWE-2, NCI-358
326343	PAZSZUZU	NS. 122034	CH.17_hs gij6525295	2.08	EB, LnCap, DU145
335470			CH22_FGENES.568_3	2.08	NCI-H69, PRSC_con, PRSC_log
	T93681	Hs.187515		2.08	MCF7, MB-MDA-453, BT474
335320		7101101040	CH22_FGENES.534_7	2.08	BT474, MB-MDA-231, HT29
	AI184343		EST singleton (not in UniGene) with exon	2.08	HT29, MCF7, PC3
338080			CH22_EM:AC005500.GENSCAN.172-11	2.08	LnCap, PC3, HT29
313113	A1056258	Hs.122523		2.08	MCF7, DU145, MB-MDA-453
337685			CH22_EM:AC000097.GENSCAN.77-1	2.08	NCI-H69, NCI-H345, PRSC_log
327461			CH.02_hs gli6004455	2.08	NCI-H23, BT474, NCI-358
335895	A14/474 470		CH22_FGENES.635_3	2.08	HT29, MB-MDA-231, NCI-H520
	AW471472	LI- 400044	EST singleton (not in UniGene) with exon	2.08	MB-MDA-231, BT474, NCI-H345
\$14003	VIBOD 108	MS. 100041	ESTs; Weakly similar to MYOSIN LIGHT CHANON-MUSCLE ISOZYMES [H.sapiens]	2.08	PC3, A549, BT474
302722	U53530		EST	2.08	DU145, MB-MDA-435s, OVCA-R
	Al318588		EST singleton (not in UniGene) with exon	2.08	HT29, MB-MDA-435s, CALU6
	Al334965	Hs.176976		2.08	A549, LnCap, PC3
	AA860090		EST duster (not in UniGene)	2.08	PC3, MCF7, OVCA-R
	AA976950		EST singleton (not in UniGene) with exon	2.07	OVCA-R, PC3, EB
307961	Al421059		EST singleton (not in UniGene) with exon	2.07	HT29, OVCA-R, CALU6
329735			CH.14_p2 gij6065780	2.07	EB, HT29, OVCA-R
335193			CH22_FGENES.507_8	2.07	EB, A549, A549
	R34423	Hs.221535		2.07	CALU6, A549, EB
		Hs.147208		2.07	MB-MDA-453, PC3, HT29
		Hs.232165		2.07	HT29, CALU6, CALU6
	T65096		EST cluster (not in UniGene)	2.07	MB-MDA-453, MCF7, CALU6 OVCA-R, DU145, EB
330204	Al142037	Hs.125379	CH.05_p2 gi 6013606	2.07 2.07	PRSC_con, NCI-H345, OVCA-R
337645	74172007	113.120010	CH22_EM:AC000097.GENSCAN.10-8	2.07	NCI-H345, PRSC_log, NCI-H69
312501	AW450490	Hs.132886	ESTs	2.07	NCI-H520, CALU6, MCF7
335587			CH22_FGENES.581_26	2.07	NCI-H69, NCI-H345, PRSC_log
	AI917706	Hs.129997		2.07	NCI-H520, MCF7, MB-MDA-435s
302488	AF161441		EST	2.07	EB, DU145, CALU6
	AA554202	Hs.76067	heat shock 27kD protein 1	2.07	MCF7, MB-MDA-453, PC3
325369			CH.12_hs gij5866920	2.07	DU145, DU145, MB-MDA-453
	AA936835		EST singleton (not in UniGene) with exon	2.07	BT474, MB-MDA-231, HT29
337402			CH22_FGENES.752-1	2.07	A549, BT474, DU145

327418			CH.02_hs gt 5867750	2.07	MCF7, MB-MDA-453, MB-MDA-435s
317977	Al004775	Hs.205091	ESTs; Weakly similar to WW domain bindin	2.07	BT474, MB-MDA-453, PC3
	AA428560			2.07	MB-MDA-231, MB-MDA-435s, BT474
336657	AA514805	HS.105464	CH22_FGENES.35-14	2.07 · 2.07	HT29, BT474, BT474 MB-MDA-453, MCF7, NCI-H460
336035			CH22_FGENES.678_6	2.07	NCI-H69, PRSC_con, RPWE-2
325320			CH.11_hs gij5866870	2.06	NCI-H69, PRSC_log, PRSC_con
	AA905312		EST singleton (not in UniGene) with exon	2.06	HT29, OVCA-R, MB-MDA-231
333175			CH22_FGENES.95_2	2.06	LnCap, HT29, DU145
	AA437096			2.06 2.06	MB-MDA-435s, CALU6, CALU6 NCI-H69, PRSC_log, NCI-H345
338521	AI697536	IIS. 170591	CH22_EM:AC005500.GENSCAN.395-35	2.06	NCI-H345, PRSC_log, PRSC_log
334900			CH22_FGENES.452_14	2.06	A549, CALU6, NCI-H69
337451			CH22_FGENES.774-2	2.06	PRSC_con, PRSC_log, RPWE-2
	Al815153	Hs.195188	glyceraldehyde-3-phosphate dehydrogenase		DU145, BT474, MB-MDA-453
336854	A A 424076		CH22_FGENES.280-1	2.06 2.06	LnCap, EB, MB-MDA-435s MB-MDA-231, BT474, CALU6
326458	AA434076		EST singleton (not in UniGene) with exon CH.19_hs gij5867400	2.06	EB, DU145, LnCap
'	AA340605	Hs.105887		2.06	LnCap, MCF7, CALU6
333628			CH22_FGENES.226_2	2.06	NCI-H520, NCI-358, NCI-358
	AA190753		EST	2.06	NCI-H69, NCI-H345, PRSC_con
334836			CH22_FGENES.439_6	2.06 2.06	NCI-H345, PRSC_con, RPWE-2 PRSC_log, PRSC_con, NCI-H69
335217 338970			CH22_FGENES.512_3 CH22_DJ32I10.GENSCAN.26-3	2.06	A549, MB-MDA-453, LnCap
334842			CH22_FGENES.439_21	2.06	DU145, HT29, CALU6
-	AW006428	Hs.232857	-	2.06	EB, DU145, OVCA-R
332949			CH22_FGENES.47_12	2.06	EB, DU145, OVCA-R
	AW369663	Hs.150150		2.06	PRSC_con, PRSC_log, RPWE-2
329401	AA837332		CH.X_hs gij6682544 EST cluster (not in UniGene)	2.06 2.06	NCI-H69, PRSC_con, RPWE-2 OVCA-R, MCF7, MB-MDA-453
	W95840	Hs.59745	NADH dehydrogenase (ubiquinone) flavopro		Caco2, NCI-358, OVCA-R
329839			CH.14_p2 gi[6672062	2.05	MB-MDA-231, RPWE-2, CALU6
	AI004890		EST singleton (not in UniGene) with exon	2.05	DU145, MB-MDA-453, MCF7
	AW137442			2.05	LnCap, EB, PC3 NCI-H345, PRSC_con, RPWE-2
318551	Al909951	HS.239307	tyrosyl-tRNA synthetase CH22_BA354I12.GENSCAN.28-1	2.05 2.05	BT474, MB-MDA-231, A549
	A1632098	Hs.198099		2.05	NCI-H69, RPWE-2, MCF7
327051			CH.21_hs gl[6531965	2.05	PRSC_con, NCI-H345, PRSC_log
336827			CH22_FGENES,236-2	2.05	NCI-H345, A549, MB-MDA-231
	AI078033	Hs.177170	ESTs; Moderately similar to !!!! ALU SUB	2.05	OVCA-R, DU145, CALU6 NCI-H69, PRSC_con, NCI-H345
335036 313100	N52880	Hs.122817	CH22_FGENES.475_14	2.05 2.05	RPWE-2, NCI-H345, PRSC_log
			retinoschisis (X-linked; Juvenile) 1	2.05	MB-MDA-231, NCI-H345, PRSC_con
326070			CH.17_hs gi 5867175	2.05	MB-MDA-435s, MB-MDA-231, BT474
338514			CH22_EM:AC005500.GENSCAN.392-4	2.05	PRSC_con, PRSC_log, RPWE-2
328098	AA679361	₩a 240497	CH.06_hs gi 5868020	2.05 2.05	DU145, CALU6, EB NCI-H460, PRSC_con, NCI-H23
	AA923457	NS.24940/	EST singleton (not in UniGene) with exon	2.05	NCI-H345, PRSC_con, RPWE-2
	AA883808	Hs.174148		2.05	EB, DU145, CALU6
336102			CH22_FGENES.693_2	2.04	LnCap, NCHH69, PRSC_log
	Al239895	Hs.130555		2.04	PRSC_con, RPWE-2, PRSC_log
333252	A14272240	Un 450747	CH22_FGENES.116_4	2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474
	AW372340 AA393624	ns. 1357 17	EST cluster (not in UniGene)	2.04	RPWE-2, PRSC_con, MB-MDA-231
338770			CH22_EM:AC005500.GENSCAN.520-1	2.04	PRSC_con, NCI-H69, NCI-H460
	AI798611	Hs.157277		2.04	EB, PC3, LnCap
333004	AMPAEODE	Un 044044	CH22_FGENES.60_1	2.04	A549, NCI-358, DU145 NCI-H520, CALU6, Cacc2
	AVV245025 A1905527		NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to !!!! ALU SUB	2.04 2.04	EB. A549, HT29
	Al276278	Hs.157176	· ·	2.04	PC3, MB-MDA-453, BT474
	Al149878		ESTs; Wealdy similar to testicular tekti	2.04	NCI-H69, RPWE-2, NCI-H345
325851	.140-004		CH.16_hs gij5867067	2.04	MB-MDA-231, HT29, EB
	AI125604			2.04 2.04	MCF7, DU145, DU145 LnCap, OVCA-R, DU145
334135	AW160951		EST CH22_FGENES.336_2	2.04	PC3. A549. MB-MDA-435s
329793			CH.14_p2 gli6522661	2.04	DU145, CALU6, HT29
332595	AA256431		G protein pathway suppressor 2	2.04	A549, CALU6, NCI-H23
	AW166388			2.04 .	MCF7, HT29, A549
	AW246071	HS.133122		2.04	Caco2, A549, MCF7 EB, LnCap, PC3
306801	A1052653		EST singleton (not in UniGene) with exon CH22_EM:AC005500.GENSCAN.181-14	2.03 2.03	DU145, HT29, CALU6
327544			CH.03_hs gij5867797	2.03	PRSC_con, NCI-H69, NCI-H345
	F13195		EST cluster (not in UniGene)	2.03	PRSC_con, RPWE-2, PRSC_log
325289	TEC204	Un 40040**	CH.11_hs gij5866903	2.03	EB, OVCA-R, A549
	T56361 AA922213		hemoglobin; gamma A	2.03 2.03	HT29, BT474, EB LnCap, OVCA-R, EB
310010		. ~. , £ 17 00			

309533	AW151131		EST singleton (not in UniGene) with exon	2.03	MB-MDA-231, BT474, LnCap
338579			CH22 EM:AC005500.GENSCAN.431-3	2.03	NCI-H69, NCI-H345, RPWE-2
326549			CH.19_hs glj5867307	2.03	NCI-H69, Caco2, NCI-H345
	A1628384	Hs.193745		2.03	BT474, MB-MDA-453, MCF7
334111		1101100110	CH22_FGENES.330_10	2.03	NCI-H69, MB-MDA-231, BT474
327123			CH.21_hs gij6531971	2.03	NCI-H345, NCI-H69, RPWE-2
	AW502311		EST cluster (not in UniGene)	2.03	NCI-H345, NCI-H520, NCI-H460
	AA896989			2.03	NCI-H69, PRSC_log, PRSC_con
	AA012877		EST singleton (not in UniGene) with exon EST	2.03	RPWE-2, OVCA-R, EB
	U52219	U= 450200		2.03	
326646	U32219	ns. 100329	G protein-coupled receptor 50	2.03	NCI-H520, NCI-H23, PC3
	TC44C4		CH.20_hs gi 5867562		NCI-H460, OVCA-R, HT29
	T61464		EST singleton (not in UniGene) with exon	2.03	NCI-H345, PRSC_con, PRSC_log
	AA535602		EST singleton (not in UniGene) with exon	2.03	A549, DU145, EB
	M83652	Hs.53155	properdin P factor; complement	2.02	NCI-H23, NCI-H460, NCI-358
	A1473273	HS.159674	ESTs; Weakly similar to GLUTAMATE [H.sap		NCI-H345, MB-MDA-231, BT474
330327			CH.08_p2 gi 5919194	2.02	NCI-H345, NCI-H69, PRSC_log
	A1659985		EST singleton (not in UniGene) with exon	2.02	NCI-H345, RPWE-2, PRSC_log
	Al344972	Hs.231496		2.02	NCI-H69, CALU6, OVCA-R
	T87351	Hs.194121		2.02	NCI-H460, NCI-358, NCI-H520
			ESTs; Weakly similar to Wiskott-Aldrich	2.02	DU145, EB, OVCA-R
314318	AL037405	Hs.176141	ESTs	2.02	PRSC_con, LnCap, PRSC_log
334779			CH22_FGENES.432_1	2.02	EB, HT29, DU145
336994			CH22_FGENES.410-2	2.02	NCI-H345, PRSC_con, NCI-H69
334076			CH22_FGENES.327_31	2.02	OVCA-R, CALU6, EB
318116	AW452865	Hs.132339		2.02	MB-MDA-231, NCI-H69, NCI-H345
326783			CH.20_hs gi[6525298	2.02	NCI-H69, PRSC_con, RPWE-2
336142			CH22_FGENES.705_4	2.02	NCI-H69, PRSC_log, PRSC_con
	AA663733		EST cluster (not in UniGene)	2.02	DU145, EB, CALU6
	AW239364		EST	2.02	PRSC_con, RPWE-2, PRSC_log
		He 164624	ESTs; Weakly similar to Slit-3 protein [2.01	RPWE-2, NCI-H69, NCI-H23
		Hs.144857		2.01	PRSC_con, NCI-H345, PRSC_log
		Hs.195078		2.01	NCI-H345, NCI-H69, RPWE-2
	R87679	113.133010	EST duster (not in UniGene)	2.01	HT29, A549, NCI-H460
334760	10/0/3		CH22_FGENES.428_9	2.01	NCI-358, NCI-H69, PRSC_log
338368			CH22_EM:AC005500.GENSCAN.325-2	2.01	NCI-H23, NCI-H520, NCI-H460
	A1417007	Hs.166338		2.01	NCI-H460, DU145, NCI-H23
	AW178750	пз. 100330		2.01	MCF7, MB-MDA-453, OVCA-R
		Un 224667		2.01	PRSC_con, NCI-H345, RPWE-2
	AASU//IS	Hs.221667			
333306			CH22_FGENES.137_3	2.01	NCI-H69, NCI-H345, PRSC_con
328031	4.4000007	11- 40050	CH.06_hs gi 5902482	2.01	MB-MDA-231, NCI-H345, PRSC_con
	AA326007		asialoglycoprotein receptor 1	2.01	MB-MDA-453, DU145, EB
		MS.191///	ESTs; Weakly similar to XAP-5-like prote .	2.01	HT29, NCI-H23, NCI-358
	T84520		EST cluster (not in UniGene)	2.01	PRSC_con, NCI-H345, NCI-H69
	R17059	Hs.22100	ESTs	2.01	EB, DU145, MB-MDA-435s
	AI829820		EST singleton (not in UniGene) with exon	2.01	DU145, EB, PC3
	AA732066		EST	2.01	OVCA-R, PC3, MB-MDA-435s
	AA576428		EST singleton (not in UniGene) with exon	2.01	LnCap, MB-MDA-453, DU145
334855			CH22_FGENES.442_6	2.01	NCI-H345, RPWE-2, PRSC_log
337121			CH22_FGENES.519-1	2.01	NCI-H69, NCI-H345, PRSC_con
	AA412498	Hs.104778	ESTs	2.01	BT474, BT474, MCF7
339181			CH22_DA59H18.GENSCAN.72-6	2.01	NCI-H345, PRSC_con, NCI-H69
327564			CH.03_hs gl 5867811	2.01	BT474, HT29, DU145
	R63932	Hs.28467	. EST	2	BT474, OVCA-R, MCF7
		Hs.163297	ESTs	2	MB-MDA-435s, MB-MDA-453, LnCap
312777	W92809	Hs.138557	ESTs	2	PRSC_con, NCI-H345, MB-MDA-231
305888	AA868536	Hs.126145	EST	2	HT29, HT29, BT474
	R52177		EST cluster (not in UniGene)	2	EB, A549, BT474
	AI761307		EST singleton (not in UniGene) with exon	2	RPWE-2, PRSC_con, NCI-H345
325755			CH.14_hs gi 6682474	2	NCI-H345, PRSC_con, PRSC_log
	AW499705		EST cluster (not in UniGene)	2	DU145, BT474, PC3
	AA432166	Hs.3577	succinate dehydrogenase complex; subunit	2	CALU6, MB-MDA-453, A549
			, , , , , , , , , , , , , , , , , , , ,		

Table 4

Pkey: Unique Eos probeset identifier number
ExAcon: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Exr_Accn	UniG_ID	Complete_Title	Ratio Met/BS	Top 3 expressing cell lines
313166	AI801098	Hs.151500	ESTs	12.23	Caco2, EB, OVCA-R
334593			CH22_FGENES.408_3	8.06	NCI-H69, OVCA-R, OVCA-R
	R20655	Hs.81281		7.89	LnCap, OVCA-R, EB
	AA502659			7.77	OVCA-R, EB, CALU6
	AA192455			7.76	CALU6, EB, DU145
	AW362945	Hs.162459		6.81	OVCA-R, EB, CALU6
325519			CH.12_hs gi/6017036	6.34	NCI-H69, NCI-H345, PRSC_con
	H68097	Hs.161023		6.16	OVCA-R, A549, EB
	AA533447		EST cluster (not in UniGene)	6.15	PC3, EB, CALU6
337695	A A 070700		CH22_EM:AC000097.GENSCAN.84-1	5.84	NCI-H69, NCI-H345, DU145
	AA378739		EST cluster (not in UniGene)	5.77 5.72	OVCA-R, DU145, EB MB-MDA-453, MCF7, MB-MDA-435s
	AA731209 AI093177	He 12/022	EST cluster (not in UniGene) with exon h	5.68	A549, NCI-H345, NCI-H69
			nuclear receptor co-repressor 2	5.68	LnCap, A549, OVCA-R
	AA421163			5.66	OVCA-R, DU145, Caco2
	H40988	Hs.131965		NCI-H345, OVCA	
	AF086372		EST cluster (not in UniGene)	5.31	OVCA-R, DU145, PC3
	AA582082	Hs.199410		5.17	PRSC_con, PRSC_log, NCI-H345
	AA565051			5.16	OVCA-R, PC3, EB
310966	AW271974	Hs.210295	ESTs	5.15	NCI-H69, PRSC_log, PRSC_con
311332	AW292247	Hs.255052	ESTs	5.05	Caco2, OVCA-R, EB
			ESTs; Moderately similar to IIII ALU CLA	5.04	EB, DU145, HT29
			ESTs; Weakly similar to IIII ALU SUBFAMI	4.93	OVCA-R, DU145, Caco2
	AW162263			4.84	NCI-H460, NCI-H345, NCI-H23
	Al539443			4.84	DU145, Caco2, MB-MDA-231
			H sapiens clone 24838 mRNA seq	4.83	PC3, OVCA-R, DU145
	AA135159	Hs.203349		4.82	OVCA-R, PC3, Cacc2
	AA078493	Un 402040	EST cluster (not in UniGene)	4.81	DU145, EB, OVCA-R
	H01560		ESTs; Weakly similar to IIII ALU SUBFAMi	4.8 4.78	NCI-H345, DU145, LnCap DU145, DU145, DU145
			ESTs; Moderately similar to !!!! ALU SUB H saplens mRNA; cDNA DKFZp586E2317 (fr		4.75 DU145, OVCA-R, MB-MDA-453
327772	MOTIMO	N3.231410	CH.05_hs gl[5867964	4.74	HT29, MB-MDA-231, NCI-H345
	AA742222	Hs.120634		4.7	DU145, EB, MB-MDA-453
	AA555215			4.7	DU145, Caco2, PRSC_con
	R99834	Hs.250383		4.59	OVCA-R, PC3, EB
336637			CH22_FGENES.13-7	4.58	NCI-H69, PRSC_log, NCI-H345
	T99544	Hs.173734	ESTs; Wealdy similar to !!!! ALU CLASS B	4.55	OVCA-R, NCI-H345, Caco2
336984			CH22_FGENES.401-2	4.55	Caco2, Caco2, EB
316261	AW134485	Hs.144967	ESTs	4.53	NCI-H460, NCI-H345, Caco2
300417	AW139492			4.52	DU145, CALU6, EB
	N72596		DEAD/H (Asp-Glu-Ala-Asp/His) box polypep		OVCA-R, PC3, EB
	Al557019			4.5	LnCap, PC3, PRSC_con
	F04112	Hs.177178		4,47	Caco2, DU145, DU145
	AA377589	Un 47205	EST cluster (not in UniGene)	4.45	NCI-H345, PRSC_con, PRSC_log CALU6, OVCA-R, EB
1.7	R73816	Hs.17385		4.44	HT29, BT474, NCI-H69
328981	N63915		CH.09_hs gij5868527 EST cluster (not in UniGene)	4.43 4.34	Caco2, A549, A549
	AA214584		EST cluster (not in UniGene)	4.34	NCHH23, CALU6, OVCA-R
	Al680459	Hs.201441	FSTs	4,33	DU145, HT29, CALU6
	AI707882		EST singleton (not in UniGene) with exon	4.33	MCF7, NCI-H345, OVCA-R
302459	AF169255		EST cluster (not in UniGene) with exon h	4.28	MB-MDA-231, OVCA-R, LnCap
321847	T08401		EST cluster (not in UniGene)	4.25	MB-MDA-453, MB-MDA-435s, MB-MDA-231
337884			CH22_EM:AC005500.GENSCAN.54-2	4.23	HT29, NCI-H23, MB-MDA-435s
	Al269188	Hs.175656		4.23	NCI-H23, NCI-H520, NCI-358
314915		Hs.187748	ESTs; Weakly similar to IIII ALU SUBFAMI	4.21	PC3, OVCA-R, Caco2
336638			CH22_FGENES.14-2	4.21	NCI-H69, NCI-H345, PRSC_log
319379	T91443	Hs.193963		4.2	PC3, OVCA-R, LnCap
312332	R33041	Hs.106200		4.19	NCI-H69, OVCA-R, NCI-H460
331445	H89093	Hs.41215		4.19	EB, HT29, DU145
315841	AW136397	Ha 420002	ECT: Madagich signature IIII At 11 Cum	4.19	Caco2, MB-MDA-453, LnCap LnCap, NCI-H345, OVCA-R
	Al950133 AA773876		ESTs; Moderately similar to !!!! ALU SUB	4.18	NCI-H345, Caco2, DU145
			ESTs; Moderately similar to !!!! ALU SUB	4.15 4.13	NCI-358, RPWE-2, NCI-H460
200121	'IF IONION	, 2000 100	EG 10, madeletely entitled to the ALO SUD	7.10	

312129 AW300867		EST cluster (not in UniGene)	4.12	OVCA-R, MCF7, A549
321166 AA411263 H	s.128783	ESTs	4.11	OVCA-R, Caco2, PRSC_con
313220 Al971981 H	s.118241	ESTs	4.1	OVCA-R, DU145, Caco2
314022 AW452420 H			4.1	OVCA-R, EB, PC3
321359 AW474412		EST cluster (not in UniGene)	4.1	DU145, OVCA-R, PC3
328841		CH.07_hs glj6381920	4.09	NCHH69, PRSC_log, NCHH345
337898		CH22_EM:AC005500.GENSCAN.56-5	4.09	NCI-H345, NCI-H69, OVCA-R
333245		CH22_FGENES.115_2	4.09	PRSC_log, PRSC_con, NCI-H345
	ls. 132965		4.06	EB, DU145, CALU6
314775 Al149880 H			4.06	OVCA-R, PC3, EB
317901 AW150944 H			4.06	BT474, MB-MDA-453, MB-MDA-435s
309985 AW452919		EST singleton (not in UniGene) with exon	4.05	MB-MDA-453, NCI-H23, NCI-H520
311004 AA632846		EST cluster (not in UniGene)	4.05	MB-MDA-453, OVCA-R, EB
323497 AI523613 H			4.04	LnCap, OVCA-R, EB
	s.221716		4.04	EB, CALU6, PC3
		suppressor of white apricot homolog 2	4.01	A549, EB, Ca∞2
	ls.222487		3.96	OVCA-R, EB, PC3
315710 AA931550 H			3.95	EB, MB-MDA-231, OVCA-R
316897 AA838114	15. 152/03		3.94	OVCA-R, A549, MB-MDA-453
	440244	EST cluster (not in UniGene)	3.94	NCI-H460, Caco2, EB
	ls.118344		3.9	NCI-H345, RPWE-2, BT474
304605 AA513225		EST singleton (not in UniGene) with exon	3.9	OVCA-R, LnCap, LnCap
325726	- 444040	CH.14_hs gi 6552447		
		ESTs; Weakly similar to IIII ALU SUBFAMI	3.89	DU145, NCI-H23, PRSC_log
	ls.48703		3.87	NCI-H23, NCI-H460, NCI-358 NCI-H345, PRSC_log, LnCap
319403 T98413	- 400700	EST cluster (not in UniGene)	3.86	
	ls.130729		3.84	OVCA-R, DU145, NCI-H345
	ls.211377		3.82	NCI-H345, PRSC_con, PRSC_log
321632 AA419617	- 400000	EST cluster (not in UniGene)	3.81	EB, OVCA-R, A549
	ls.1820 99		3.8	EB, Caco2, OVCA-R LnCap, DU145, PC3
330833 AA046804		ESTs; Weakly similar to IIII ALU SUBFAMI	3.8 3.79	
327289		CH.01_hs gi 5867481		EB, HT29, DU145 QVCA-R, PC3, PRSC_con
314429 AW300749 314475 Al911160 H		EST cluster (not in UniGene)	3.79 3.79	DU145, CALU6, NCI-H69
			3.78	EB, PC3, Caco2
317130 AW293995 H 336635	13. 1322/ /	CH22_FGENES.13-5	3.77	NCI-H69, NCI-H345, PRSC_log
333323		CH22_FGENES.138_16	3.76	NCI-H460, NCI-H23, PRSC_con
332135 AA620331 H	- 245351		3.75	NCI-H345, A549, Caco2
316979 AA861087	15.240001	EST cluster (not in UniGene)	3.75	NCI-H345, NCI-H69, RPWE-2
	le 102618	ESTs; Weakly similar to III! ALU CLASS C	3.74	MB-MDA-435s, MCF7, MB-MDA-453
315422 AW135357 H			3.73	OVCA-R, A549, EB
336616	13, 132077	CH22_FGENES.613_5	3.72	NCI-H69, NCI-H345, RPWE-2
320258 W93241		EST cluster (not in UniGene)	3.71	MB-MDA-231, NCI-H69, EB
	ls.186470		3.69	OVCA-R, A549, DU145
306881 AI088695		EST singleton (not in UniGene) with exon	3.68	CALU6, HT29, EB
337304		CH22_FGENES.681-6	3.67	MCF7, MB-MDA-453, LnCap
323693 AW297758 H	ls.249721		3.67	OVCA-R, MB-MDA-453, DU145
		ESTs; Weakly similar to IIII ALU SUBFAMI	3.67	RPWE-2, NCI-H345, OVCA-R
318162 AW296277 H			3.67	MB-MDA-231, DU145, CALU6
318042 AW294522 H			3.66	EB, HT29, CALU6
308069 AJ470895		EST singleton (not in UniGene) with exon	3.64	Caco2, Caco2, NCI-H23
327614		CH.04_hs gl 6525283	3.62	NCI-H460, NCI-H345, NCI-H69
337514		CH22_FGENES.809-7	3.62	NCI-358, NCI-H23, NCI-H460
332093 AA608794 H	ls.112592		3.6	EB, OVCA-R, DU145
327793		CH.05_hs glj5867979	3.59	LnCap, OVCA-R, EB
	ls.183146		3.59	OVCA-R, EB, Caco2
303769 AA134888 H	ls.173415	ESTs	3.58	HT29, CALU6, CALU6
	ls.189699		3.58	PRSC_con, LnCap, RPWE-2
317902 Al828602 H	ls:211265	ESTs	3.57	CALU6, NCI-H345, OVCA-R
324090 Al656531 H	ls.116070	ESTs	3.57	PRSC_con, NCI-H345, PRSC_log
300120 AW204314 H	ls.170784	ESTs	3.57	NCI-H69, NCI-H345, PRSC_con
307752 Al339447		EST singleton (not in UniGene) with exon	3.56	NCI-358, HT29, MB-MDA-231
322438 W44531 H	is.167851	ESTs	3.55	NCI-H345, NCI-H69, Ca∞2
311275 AI659166 H	ls.207144	ESTs	3.55	MB-MDA-231, PRSC_con, LnCap
338830		CH22_DJ246D7.GENSCAN.6-7	3.54	LnCap, PC3, OVCA-R
315647 AA648983 H	is.212911	ESTs	3.53	OVCA-R, MB-MDA-453, CALU6
331469 N22273 H	ls.39140	ESTs	3.52	EB, A549, CALU6
313445 Al123657 H	ls.127264	ESTs	3.51	EB, OVCA-R, A549
330139		CH.21_p2 gi 4210430	3.5	EB, CALU6, DU145
304450 AA404521 H	ls.10326	coatomer protein complex; subunit epsilo	3.49	NCI-H345, NCI-H69, NCI-H460
325763		CH.14_hs gip6682475	3.49	PC3, BT474, OVCA-R
312803 AA677934 H		EVIA .	3.47	OVCA-R, Caco2, MB-MDA-453
303654 AA436942 H	fs.168308	ESTs	3.46	DU145, NCHH460, NCHH69
303654 AA436942 H 317924 Al222324 H	fs.168308 fs.166306	ESTs ESTs; Weakly similar to zinc finger prot	3.46 3.46	DU145, NCI-H460, NCI-H69 PRSC_con, PRSC_log, NCI-H69
303654 AA436942 H 317924 Al222324 H 312354 AA036955 H	fs.168308 fs.166306	ESTs ESTs; Weakly similar to zinc finger prot ESTs	3.46 3.46 3.44	DU145, NCI-H460, NCI-H69 PRSC_con, PRSC_log, NCI-H69 Caco2, MB-MDA-435s, NCI-H460
303654 AA436942 H 317924 Al222324 H	is.168308 is.166306 is.167040	ESTs ESTs; Weakly similar to zinc finger prot ESTs CH22_FGENES.814-6	3.46 3.46	DU145, NCI-H460, NCI-H69 PRSC_con, PRSC_log, NCI-H69

000755	4111000004		FOT all of a fact to the the total and	0.40	DDCC DDWC 3 NOLUSAE
	AW300094	LI= 000000	EST cluster (not in UniGene)	3.42	PRSC_con, RPWE-2, NCI-H345
	ALU42699	Hs.209222		3.42	NCI-H345, PRSC_con, PRSC_log
337911	41005400	11- 400000	CH22_EM:AC005500.GENSCAN.59-6	3.42	OVCA-R, PC3, HT29
		Hs.132238		3.41	CALU6, LnCap, OVCA-R
311059	AA/U4/U5	MS.181044	ESTs; Weakly similar to Chain A; Human O	0.44	1-0 MD MDA 495- A540
244400		11- 404000	Complexed With L-Canaline [H.saplens]	3.41	LnCap, MB-MDA-435s, A549
	H15560	Hs.131833	the state of the s	3.41	NCI-H69, LnCap, LnCap
	AA228883		EST cluster (not in UniGene)	3.41	Cacc2, OVCA-R, NCI-H69
325690			CH.14_hs gi 5867021	3.4	HT29, CALU6, DU145
		Hs.190092		3.4	MB-MDA-231, BT474, EB
		Hs.155780		3.4	PRSC_con, NCI-H345, NCI-H69
330527	S77356		transcript ch21=oligomycin sensitivity c		
			8 stomach cancer cell lines, mRNA, 262 n	3.39	NCI-H23, Caco2, A549
		Hs.188780		3.39	OVCA-R, BT474, Cacc2
	AB033072		EST cluster (not in UniGene)	3.39	NCI-358, EB, Caco2
	AA234009	Hs.188715		3.38	DU145, CALU6, CALU6
328592			CH.07_hs gl 5868227	3.38	MCF7, NCI-358, MB-MDA-231
		Hs.232193		3.36	NCI-H520, NCI-H23, PRSC_log
323853	AA393460		EST cluster (not in UniGene)	3.36	DU145, EB, Ca∞2
327740			CH.05_hs gij5867943	3.35	EB, LnCap, OVCA-R
326857			CH.20_hs gij6552460	3.33	NCI-H69, MCF7, NCI-H345
317787	AW339612	Hs.249364	ESTs	3.31	NCI-H345, PRSC_con, PRSC_log
325760			CH.14_hs gij6552449	3.3	EB, CALU6, HT29
337513			CH22_FGENES.809-4	3.29	LnCap, NCI-H23, NCI-H460
336606			CH22_FGENES.429_3	3.29	NCI-H69, A549, NCI-H23
322895	AW470295	Hs.192152		3.29	DU145, Caco2, EB
		Hs.257634		3.29	RPWE-2, NCI-H69, NCI-H345
328224			CH.06_hs gij5868101	3.28	DU145, NCI-H345, LnCap
336128			CH22_FGENES.701_16	3.27	BT474, NCI-H520, MB-MDA-231
	AA281323	He 4947	ESTs	3.27	Caco2, PC3, NCI-H345
	M14269	110.7577	EST cluster (not in UniGene) with exon h	3.27	DU145, CALU6, NCI-H520
		Ha 420002		3.26	OVCA-R, NCI-H69, DU145
		Hs.130803			
	A100 10/0	Hs.114164		3.26	LnCap, NCI-H345, PRSC_log
334690	41704000		CH22_FGENES.420_3	3.25	NCI-H69, RPWE-2, PRSC_con
	AI761036		EST singleton (not in UniGene) with exon	3.25	DU145, MB-MDA-231, HT29
			ferritin; light polypeptide	3.24	OVCA-R, DU145, A549
		Hs.13849		3.24	NCI-H460, NCI-H23, MB-MDA-453
			KIAA0953 protein	3.24	EB, MCF7, MB-MDA-435s
	AA810788	Hs.123337		3.23	DU145, OVCA-R, BT474
326942			CH.21_hs gij6004446	3.22	HT29, BT474, NCI-H23
324824	AI826999	Hs.224624	ESTs	3.21	OVCA-R, MB-MDA-453, EB
320789	R78712		EST cluster (not in UniGene)	3.21	DU145, LnCap, EB
315070	AW131368	Hs.186736	ESTs	3.21	Caco2, NCI-358, NCI-H460
303794	AW241987	Hs.197025	ESTs	3.19	OVCA-R, PC3, LnCap
310237	Al884313	Hs.158906	ESTs	3.19	NCI-358, NCI-H345, MCF7
	AA130859		EST cluster (not in UniGene)	3.18	MB-MDA-231, HT29, BT474
336634			CH22_FGENES.13-4	3.18	NCI-H69, NCI-H345, BT474
	AA779058	Hs.190428	ESTs; Weakly similar to NG26 [H.saplens]	3.17	NCI-H345, NCI-H345, NCI-358
		Hs.144583		3.17	Caco2, EB, OVCA-R
	Al188864	110.111000	EST singleton (not in UniGene) with exon	3.17	EB, CALU6, CALU6
	Al174861	Hs. 190623		3.17	OVCA-R, DU145, PC3
		Hs.128064		3.17	MB-MDA-231, BT474, EB
	AA770682	113.120007	EST singleton (not in UniGene) with exon	3.17	NCI-358, Ca∞2, HT29
		Hs.124918		3.17	EB, OVCA-R, Caco2
	AI431345	Hs.161784		3.17	EB, BT474, MCF7
	AL039604	16.101704	EST cluster (not in UniGene) with exon h	3.17	HT29, NCI-358, Caco2
		Un 472920			MCF7, DU145, EB
	R05818	Hs.173830		3.16	MB-MDA-453, DU145, MCF7
	WAAA000122	Hs.243770		3.16	PRSC_log, NCI-H345, PRSC_con
335344			CH22_FGENES.536_3	3.15	
326162			CH.17_hs gl 5867168	3.15	BT474, HT29, HT29
	AA424703		EST singleton (not in UniGene) with exon	3.15	NCI-H23, RPWE-2, NCI-H460
339340			CH22_BA354I12.GENSCAN.27-8	3.15	LnCap, OVCA-R, MB-MDA-453
325393			CH.12_hs gi 5866921	3.13	Caco2, NCI-H23, NCI-358
		Hs.169399		3.13	OVCA-R, EB, MB-MDA-453
	Al160868		EST singleton (not in UniGene) with exon	3.12	RPWE-2, PRSC_can, PRSC_log
313001	N29264	Hs.249591	ESTs; Moderately similar to IIII ALU SUB	3.12	NCI-H345, OVCA-R, Ca∞2
	Al290006		EST singleton (not in UniGene) with exon	3.12	MB-MDA-231, HT29, NCI-H23
325710			CH.14_hs gi 6682473	3.09	NCI-H69, MB-MDA-453, BT474
313810	AA400079	Hs.257854	ESTs	3.09	EB, DU145, CALU6
335482			CH22_FGENES.570_11	3.09	NCI-H460, NCI-358, NCI-H23
326310			CH.17_hs gij5867277	3.08	MCF7, MB-MDA-453, PC3
325742			CH.14_hs gi]6552448	3.08	NCI-H23, NCI-H460, HT29
	AI241809	Hs.75458	ribosomal protein L18	3.08	NCI-358, NCI-H23, NCI-H460
327309			CH.01_hs gl[6456757	3.07	NCI-H69, MB-MDA-435s, MB-MDA-435s
	AW205632	Hs.211198		3.07	OVCA-R, A549, Caco2
	W25673	Hs.130829		3.07	NCI-H69, PRSC_con, NCI-H345
4220.0					

324497	AW152624	Hs.136340	ESTs	3.06	NCI-H345, RPWE-2, PRSC_con
315095	AA831815	Hs.243788	ESTs	3.06	Caco2, DU145, EB
	N79647		EST cluster (not in UniGene) with exon h	3.05	OVCA-R, A549, NCI-H460
		He 183834	ESTs; Highly similar to Chp [R.norvegicu	3.05	A549, DU145, NCI-H23
		Hs.221274		3.04	BT474, HT29, HT29
334650	777332013	113.221214		3.04	MCF7, BT474, OVCA-R
	41000040		CH22_FGENES.417_17		
	A1002913		EST singleton (not in UniGene) with exon	3.04	CALU6, MCF7, BT474
	Al110679		EST cluster (not in UniGene)	3.03	NCI-H345, RPWE-2, OVCA-R
		Hs.224906		3.03	PRSC_log, PRSC_con, NCI-H460
318623	AA355439	Hs.151547	ESTs	3.03	DU145, MB-MDA-435s, HT29
304978	AA617735		EST singleton (not in UniGene) with exon	3.03	CALU6, BT474, MB-MDA-435s
305554	AA774567	Hs.121774		3.03	EB, NCI-H460, Ca∞2
	U66199		fibroblast growth factor 11	3.03	HT29, DU145, PC3
336202			CH22_FGENES.719_6	3.02	NCI-H69, NCI-H23, NCI-H23
	AI 117530	₩c 172545	H saplens mRNA; cDNA DKFZp586H021 (fro		3.02 EB, DU145, CALU6
	A1343900	Hs.158528		3.01	Caco2, EB, NCI-H69
335606			CH22_FGENES.582_3	3.01	NCI-H23, NCI-H520, NCI-H345
330058			CH.17_p2 gi 6634847	3.01	OVCA-R, HT29, LnCap
303179	AA071215		EST cluster (not in UniGene) with exon h	3.01	MCF7, RPWE-2, MB-MDA-453
307625	Al299617		EST singleton (not in UniGene) with exon	3	MB-MDA-231, LnCap, BT474
323074	AL119445	Hs.203213	ESTs	3	NCI-H23, NCI-H520, NCI-H460
336232			CH22_FGENES.736_7	3	HT29, BT474, MB-MDA-231
334915			CH22_FGENES.457_4	3	NCI-H345, PRSC_con, NCI-H69
329116			CH.X_hs gij5868650	3	NCI-H69, PRSC_con, RPWE-2
333495			CH22_FGENES.168_5	3	OVCA-R, NCI-H69, NCI-H345
	A1720400	Un 445000		2.99	
303730	A1730400	Hs.115838	ESIS		HT29, PRSC_con, DU145
			DKFZP564F1422 protein	2.99	EB, A549, MCF7
		Hs.154091		2.99	DU145, DU145, OVCA-R
		Hs.133132		2.99	NCI-H345, DU145, NCI-H520
		Hs.98722		2.99	NCI-358, NCI-H69, MB-MDA-435s
315213	AA587773	Hs.136494	ESTs	2.98	MB-MDA-231, BT474, LnCap
339251			CH22_BA354I12.GENSCAN.7-5	2.98	NCI-H69, PRSC_log, HT29
303835	T05645		EST cluster (not in UniGane) with exon h	2.97	BT474, NCI-H345, LnCap
		Hs.256832		2.97	DU145, A549, OVCA-R
			KIAA1030 protein	2.97	LnCap, DU145, PC3
327624	. 12020,000		CH.04_hs gij5867871	2.97	EB, DU145, LnCap
329029				2.96	NCI-H69, PRSC_log, LnCap
	A AOCOEOA	U- 400464	CH.X_hs gi 6525302		
	AA000004	Hs.126154		2.96	DU145, EB, LnCap
328016			CH.06_hs gi 5902482	2.96	NCI-H345, PRSC_con, DU145
			ESTs; Moderately similar to IIII ALU SUB	2.96	OVCA-R, NCI-H69, NCI-H69
	R70253	Hs.127826	ESTs	2.96	OVCA-R, DU145, MB-MDA-231
300951	AI732374	Hs.105834	ESTs; Weakly similar to 25 kDa trypsin i	2.95	NCI-358, NCI-H460, Cacc2
318226	AI078446	Hs.134125	ESTs	2.95	NCI-H460, NCI-H23, NCI-358
311349	AW292933	Hs.254110	ESTs	2.94	EB, DU145, OVCA-R
312757	AJ285970	Hs.183817	ESTs	2.94	DU145, LnCap, LnCap
316507	Al381515	Hs.158381		2.94	PRSC_con, PRSC_log, RPWE-2
			Mediterranean fever	2.93	EB, NCI-H69, DU145
		Hs.243468		2.93	NCI-H345, LnCap, LnCap
		Hs.214028		2.92	EB, Caco2, HT29
336632	70.010724	110.217020	CH22_FGENES.13-2	2.92	NCI-H69, NCI-H345, MB-MDA-231
			1 =		
328886	T04500		CH.07_hs gi 6588003	2.92	HT29, PC3, LnCap
301859			EST cluster (not in UniGene) with exon h	2.92	LnCap, EB, EB
		Hs.143022		2.92	PRSC_con, PRSC_log, RPWE-2
	Al391486	Hs.128171	ESTs .	2.92	CALU6, EB, A549
322264	AF086242		EST cluster (not in UniGene)	2.92	Caco2, OVCA-R, DU145
315135	AA627561	Hs.192446	ESTs	2.91	EB, HT29, DU145
327982			CH.06_hs gij5868216	2.91	LnCap, MB-MDA-453, NCI-H69
314530	AI052358	Hs.131741	ESTs	2.91	NCI-H460, NCI-H520, RPWE-2
	AA527650	Hs.156037		2.9	PRSC_con, RPWE-2, MB-MDA-231
339032			CH22_DA59H18.GENSCAN.25-1	2.9	NCI-H69, PRSC_con, RPWE-2
	AI623950	Hs.2186	eukaryotic translation elongation factor	2.89	BT474, MB-MDA-231, HT29
	T87714	Hs.221665		2.88	Caco2, MB-MDA-453, MCF7
		110.221000			NCI-H520, MCF7, NCI-H23
	AI434166	11- 404405	EST singleton (not in UniGene) with exon	2.88	
	AI439190		eukaryotic translation elongation factor	2.88	Caco2, NCI-H69, NCI-H345
		Hs.119559		2.88	MB-MDA-453, DU145, EB
	N34929	Hs.171984		2.86	MB-MDA-453, PC3, MCF7
320016	H57622	Hs.194574	ESTS	2.86	PRSC_con, RPWE-2, PRSC_log
317923	AW450544	Hs.220751	ESTs	2.86	NCI-H345, PRSC_con, PRSC_log
	X17033	Hs.1142	integrin; alpha 2 (CD49B; alpha 2 subuni	2.86	PC3, BT474, CALU6
			Rhesus blood group-associated glycoprote	2.85	DU145, HT29, MB-MDA-231
	Al221325	Hs.210655		2.84	PRSC_con, RPWE-2, NCI-H345
	AI908455		ESTs; Weakly similar to hypothetical L1	2.83	HT29, MB-MDA-231, BT474
	A1633205	Hs.159914		2.83	Caco2, MB-MDA-453, A549
				2.83	NCI-H345, MCF7, Caco2
	AI453402		ESTs; Weakly similar to IIII ALU CLASS C		LnCap, Caco2, NCI-H460
	AI911488	Hs.213724		2.83	BT474, LnCap, RPWE-2
J149/3	AW2/3128	Hs.254669	EOI	2.82	DITIT, LIVER, REVIEW

210050	ALCOGREG	Us 470EC4	FOT-	200	ED 147 1471 452 1-0
	AI582758	Hs.170561		2.82	EB, MB-MDA-453, LnCap
325410	AL039822	DS.20/004		2.82	PC3, HT29, CALU6
	AICCCACO	Un 44000E	CH.12_hs gij5866921	2.81	MB-MDA-453, PRSC_con, NCI-358
334244	AI565458	IIS. 1 10303		2.81	PRSC_con, EB, RPWE-2
	AW025709		CH22_FGENES.365_5	2.81	OVCA-R, PC3, MB-MDA-453
328467	M44023103		EST singleton (not in UniGene) with exon	2.81 2.81	NCI-H460, NCI-H23, NCI-358
	AW250501		CH.07_hs gi 5868434	2.81	EB, OVCA-R, HT29 BT474, NCI-H23, MB-MDA-231
326412	A11230301		EST cluster (not in UniGene)	2.81	BT474, NOR123, MB4VIDA-231 BT474, PRSC_log, RPWE-2
	AA309616		CH.19_hs gi 5867362 EST cluster (not in UniGene) with exon h	2.8	CALU6, NCHH345, DU145
328462	777000010		CH.07_hs gi[5868433	2.8	BT474, CALU6, MCF7
335157			CH22_FGENES.501_7	2.8	NCI-H69, NCI-H345, PRSC, log
	AA007259	He 255853		2.79	OVCA-R, DU145, LnCap
	AI695047	Hs.202395		2.79	DU145, MB-MDA-435s, PC3
	AI435973	Hs.128056	· ·	2.79	NCI-H460, NCI-358, DU145
	Al377596		transmembrane 4 superfamily member 1	2.79	A549, PC3, OVCA-R
	AW469180			2.79	OVCA-R, MCF7, EB
			ESTs; Moderately similar to hypothetical	2.79	PC3, OVCA-R, DU145
	A1870248		EST singleton (not in UniGene) with exon	2.78	BT474, MB-MDA-231, EB
329107	7.00. 02.10		CH.X_hs gl]5868626	2.78	DU145, MCF7, MB-MDA-435s
	AW025024	Hs.65114	keratin 18	2.78	Caco2, EB, DU145
			Human endogenous retroviral protease mRN		PC3, NCI-H520, BT474
	R06249	Hs.13911	ESTs	2.78	OVCA-R, MB-MDA-453, MCF7
329853			CH.14_p2 gij6682295	2.78	BT474, BT474, HT29
322340	AF088076		EST cluster (not in UniGene)	2.77	NCI-H345, Caco2, LnCap
326806			CH.20_hs gi]6469835	2.77	NCI-H69, NCI-H345, MB-MDA-231
314661	AA436432		EST cluster (not in UniGene)	2.77	NCI-H460, MB-MDA-435s, CALU6
322135	AF075082		EST cluster (not in UniGene)	2.77	NCI-358, NCI-H460, Caco2
331849	AA417078	Hs.193767	ESTs	2.77	DU145, EB, CALU6
301056	A1797955	Hs.208076	ESTs; Weakly similar to D(4) DOPAMINE RE	2.76	NCI-H69, RPWE-2, PRSC_con
327739			CH.05_hs gi 5867942	2.76	EB, PC3, LnCap
308016	AI445116		EST singleton (not in UniGene) with exon	2.76	LnCap, HT29, MB-MDA-231
331549	N56866	Hs.237507	EST	2.76	MB-MDA-453, MCF7, OVCA-R
331851	AA418599	Hs.98303	caveolin 3	2.75	MB-MDA-231, NCI-H345, BT474
315023	AA533505	Hs.185844	ESTs	2.75	PRSC_con, OVCA-R, EB
335565			CH22_FGENES.579_1	2.75	OVCA-R, EB, A549
	AA916176		EST singleton (not in UniGene) with exon	2.74	EB, LnCap, DU145
332240	N54803		yv31d2.s1 Soares fetal liver spleen 1NFL		
			3' similar to contains L1.t3 L1 repetit	2.74	DU145, EB, CALU6
	N90762	Hs.159454		2.74	NCHH69, NCHH345, PRSC_log
	AW299459		EST cluster (not in UniGene) with exon h	2.74	EB, A549, Caco2
325513			CH.12_hs gi 6017035	2.74	MB-MDA-231, NCI-H345, BT474
337236	******	· · · · · · · · · · · · · · · · · · ·	CH22_FGENES.639-2	2.74	MCF7, MB-MDA-453, NCI-H69
	AW407892	MS.2446U/		2.74	BT474, NCI-H345, NCI-H69
339266	AVE/00004E	Un 005004	CH22_BA354I12.GENSCAN.10-4	2.73	CALU6, DU145, OVCA-R
			ESTs; Weakly similar to KIAA0422 [H.sapi	2.73	NCI-H345, RPWE-2, PRSC_log
	R00099	Hs.193642		2.72	LnCap, PC3, OVCA-R
	AW449673			2.72	DU145, EB, MB-MDA-435s PRSC_con, PRSC_log, RPWE-2
324982	AA629988	Hs.98518	EST singleton (not in UniGene) with exon	2.71	DU145, DU145, NCI-358
	AW296107	He 152686		2.71 2.69	OVCA-R, Cacc2, EB
	AI908374	115. 152000	EST duster (not in UniGene)	2.69	RPWE-2, LnCap, PC3
300110	A1900074	He 228400	EST; Moderately similar to PK-120 precur	2.69	LnCap, NCI-H23, NCI-358
312095	AW444937	Hs 233482	FSTs	2.68	Caco2, OVCA-R, HT29
	Al291330	110.200 102	EST cluster (not in UniGene)	2.68	NCI-H460, Caco2, PRSC_log
	AA425688	Hs.41641		2.68	MB-MDA-435s, NCI-H520, NCI-H460
339116			CH22_DA59H18.GENSCAN.49-4	2.68	DU145, EB, CALU6
	AI565566	Hs.168587		2.68	PRSC_con, OVCA-R, PRSC_log
318728			EST cluster (not in UniGene)	2.68	LnCap, Caco2, PC3
	AA584540		EST singleton (not in UniGene) with exon	2.68	BT474, OVCA-R, RPWE-2
312393	N34376	Hs.191659	ESTs; Weakly similar to IIII ALU CLASS E	2.68	NCI-H345, PRSC_con, EB
330671	AB002302		KIAA0304 gene product	2.67	NCI-358, OVCA-R, Caco2
	AA723860		EST singleton (not in UniGene) with exon	2.66	OVCA-R, EB, MCF7
330957	H08778	Hs.133521	ESTs	2.66	EB, PC3, OVCA-R
300350	Al871129	Hs.172597	ESTs; Weakly similar to zinc finger prot	2.66	NCI-H23, NCI-H520, NCI-H460
322302	W76021		EST cluster (not in UniGene)	2.66	DU145, OVCA-R, PC3
321891	AW157424	Hs.165954	ESTs	2.66	EB, OVCA-R, Ca∞2
300124	Al217394	Hs.242447	ESTs	2.65	PRSC_con, A549, HT29
302747	AF062275		EST cluster (not in UniGene) with exon h	2.65	NCI-H23, BT474, MCF7
	AI802780		ESTs; Weakly similar to IIII ALU SUBFAMI	2.65	PC3, EB, OVCA-R
	AI631546	Hs.159732		2.65	PRSC_con, PRSC_log, NCI-H69
	AA063406		EST cluster (not in UniGene) with exon h	2.65	BT474, EB, MCF7
	R23313		EST cluster (not in UniGene)	2.64	EB, OVCA-R, DU145
336538			CH22_FGENES.840_2	2.64	DU145, NCI-H460, NCI-358
	AA829961		EST cluster (not in UniGene)	2.64	LnCap, OVCA-R, EB
328134			CH.06_hs gi 5868039	2.64	LnCap, EB, CALU6

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329330	41040404		CH.X_hs gi[5868806	2.64	EB, CALU6, DU145
310054	AI042101		EST cluster (not in UniGene)	2.64	NCI-H345, MB-MDA-231, PRSC_log
328015	41070004		CH.06_hs gi 5902482	2.63	BT474, HT29, MB-MDA-231
	AI879831		EST singleton (not in UniGene) with exon	2.63	BT474, EB, NCI-H23
	AL042966		EST cluster (not in UniGene)	2.62	DU145, A549, CALU6
	AA476817		EST cluster (not in UniGene)	2.62	EB, A549, CALU6
	T75247		EST cluster (not in UniGene) with exon h	2.62	HT29, BT474, NCI-H345
	AW057547		EST singleton (not in UniGene) with exon	2.62	NCI-H23, PRSC_con, LnCap
	A1864270			2.62	CALU6, MB-MDA-231, BT474
	AW103055	HS.24423U		2.62	BT474, MB-MDA-231, MB-MDA-453
335993	41050770	11. 400007	CH22_FGENES.656_6	2.61	NCI-H460, NCI-358, NCI-H520
	AI056776			2.6	EB, CALU6, HT29
			ESTs; Weakly similar to KIAA0862 protein	2.6	DU145, A549, PC3
				2.6	OVCA-R, NCI-H69, MCF7
	AA918320			2.6	PC3, MB-MDA-453, DU145
	Al698132	Hs.201923		2.6	LnCap, EB, NCI-H345
335108			CH22_FGENES.494_14	2.6	NCI-H69, NCI-H345, MB-MDA-231
	Al417526		=	2.59	PC3, DU145, OVCA-R
	AW452773	Hs.257612		2.59	NCI-H460, MB-MDA-453, NCI-H23
	F13458		EST cluster (not in UniGene)	2.59	LnCap, NCI-H460, MB-MDA-231
	Al377746			2.59	HT29, NCI-358, NCI-H345
	AW135854	Hs.132458		2.59	DU145, EB, CALU6
	AA249804		EST cluster (not in UniGene)	2.59	NCI-H69, NCI-H345, NCI-H345
	AW247670		EST cluster (not in UniGene) with exon h	2.59	NCI-H345, RPWE-2, PRSC_log
	AA666396			2.58	PRSC_log, PRSC_con, RPWE-2
	T88698	Hs.163862		2.58	DU145, EB, OVCA-R
	W23285		EST cluster (not in UniGene)	2.58	NCI-H69, MB-MDA-435s, PC3
	AW241910	Hs.122254	ESTs	2.58	MCF7, HT29, BT474
	AF075092		EST cluster (not in UniGene)	2.58	PC3, OVCA-R, HT29
	T82331	Hs.127453	ESTs	2.58	A549, CALU6, Ca∞2
339071			CH22_DA59H18.GENSCAN.34-1	2.58	CALU6, DU145, EB
311666	AW389509	Hs.223747	ESTs	2.57	OVCA-R, MB-MDA-231, BT474
	Al285898	Hs.115367	ESTs	2.57	OVCA-R, DU145, EB
	AA863395		EST cluster (not in UniGene)	2.57	NCI-H520, PRSC_con, NCI-358
324710	A!742028	Hs.120884	ESTs; Weakly similar to RAS-RELATED PRO	Т	2.57 LnCap, DU145, MB-MDA-453
327888			CH.06_hs gi 5868149	2.56	NCI-H345, MB-MDA-435s, RPWE-2
336149			CH22_FGENES.706_5	2.56	NCI-H69, PC3, A549
312816	H74319	Hs.188620	ESTs	2.56	EB, Caco2, NCI-H460
327999			CH.06_hs gl 5867994	2.56	NCI-358, NCI-H520, NCI-H23
316761	Al911173	Hs.213722	ESTs	2.55	NCI-H345, NCI-H460, MB-MDA-231
336958	٠.		CH22_FGENES.367-1	2.55	HT29, CALU6, CALU6
325043	W27919				
046447	***	Hs.32944	inositol polyphosphate-4-phosphatase; ty	2.55	NCI-H460, NCI-H23, HT29
31541/	AW452360			2.55 2.55	
			ESTs ·		NCI-H460, NCI-H23, HT29
331603	AW452360	Hs.186770	ESTs ·	2.55	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con
331603	AW452360 N78656	Hs.186770	ESTs EST	2.55 2.55	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log
331603 309403 337289	AW452360 N78656	Hs.186770 Hs.161535	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8	2.55 2.55 2.55	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7
331603 309403 337289	AW452360 N78656 AW082954	Hs.186770 Hs.161535	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8	2.55 2.55 2.55 2.54	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231
331603 309403 337289 314242 328053	AW452360 N78656 AW082954	Hs.186770 Hs.161535	ESTs EST Singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs	2.55 2.55 2.55 2.54 2.54	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453
331603 309403 337289 314242 328053	AW452360 N78656 AW082954 AI570943	Hs.186770 Hs.161535	ESTs - EST Singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gl 5902482	2.55 2.55 2.55 2.54 2.54 2.54	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453
331603 309403 337289 314242 328053 307215	AW452360 N78656 AW082954 AI570943	Hs.186770 Hs.161535	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gl 5902482 EST singleton (not in UniGene) with exon	2.55 2.55 2.55 2.54 2.54 2.54 2.53	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231
331603 309403 337289 314242 328053 307215 327566 326338	AW452360 N78656 AW082954 AI570943 AI193189	Hs.186770 Hs.161535 Hs.246280	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs gij5902482 EST singleton (not in UniGene) with exon CH.03_hs gij5867811	2.55 2.55 2.55 2.54 2.54 2.54 2.53 2.53	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3
331603 309403 337289 314242 328053 307215 327566 326338 318115	AW452360 N78656 AW082954 AI570943 AI193189	Hs.186770 Hs.161535 Hs.246280	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gij5902482 EST singleton (not in UniGene) with exon CH.03_hs gij5867811 CH.17_hs gij6056311	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437	AW452360 N78656 AW082954 AI570943 AI193189	Hs.186770 Hs.161535 Hs.246280 Hs.159130	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.53	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683	Hs.186770 Hs.161535 Hs.246280 Hs.159130	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.53 2.53	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gl 5902482 EST singleton (not in UniGene) with exon CH.03_hs gl 5867811 CH.17_hs gl 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene)	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.53 2.53 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gl 5902482 EST singleton (not in UniGene) with exon CH.03_hs gl 5867811 CH.17_hs gl 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene)	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.53 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505 314032 336125	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs gij5902482 EST singleton (not in UniGene) with exon CH.03_hs gij5867811 CH.17_hs gij6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-235, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505 314032 336125	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs gij5902482 EST singleton (not in UniGene) with exon CH.03_hs gij5867811 CH.17_hs gij6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322059 314032 336125 312765 335523	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.52 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H345, LnCap, DU145 NCI-H23, NCI-H520
331603 309403 337289 314242 328053 327566 326338 318115 307437 322059 322505 314032 336125 312765 335523 327585	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gi 5902482 EST singleton (not in UniGene) with exon CH.03_hs gi 5867811 CH.17_hs gi 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gi 5867825	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H23, NCI-358, NCI-H520 HT29, BT474, OVCA-R
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505 314032 336125 312763 335723 335723 335723 3357285 323183	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs glj5867825 EST cluster (not in UniGene)	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-358, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453
331603 309403 337289 314242 328053 307215 327566 326338 316115 307437 322059 322505 314032 336125 312765 335523 327585 323183 314418	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gl 5902482 EST singleton (not in UniGene) with exon CH.03_hs gl 5867811 CH.17_hs gl 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gl 5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-358, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2
331603 309403 337289 314242 32053 327566 326338 318115 307215 322505 322505 314032 336125 312765 335523 327583 323183 314418 313361	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.72_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-4358, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-358, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 312765 335523 327585 323183 323183 314418 313361 305632	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB EST; Moderately similar to !!!! ALU SUB ESTS EST singleton (not in UniGene)	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-4358, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145
331603 309403 337289 314242 228053 307215 327566 326338 318115 322059 322505 314032 336125 336125 33523 327585 323183 314418 313361 3133632 331639 331689	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gi 5902482 EST singleton (not in UniGene) with exon CH.03_hs gi 5807811 CH.17_hs gi 6056311 ESTs; Moderately similar to IIII ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gi 5867825 EST cluster (not in UniGene) ESTs; Moderately similar to IIII ALU SUB ESTs; Moderately similar to IIIII ALU SUB ESTS; Moderately similar to IIIII ALU SUB ESTS EST singleton (not in UniGene) with exon ESTs	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-231, MB-MDA-231 Caco2, MB-MDA-4358, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H345, LnCap, DU145 NCI-H23, NCI-358, NCI-H520 HT29, BT474, OVCA-R HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 MB-MDA-453, NCI-H460, NCI-H23
331603 309403 337289 314242 328053 307215 327566 326338 318115 302059 322059 322505 314032 336125 312765 323183 314418 313361 305632 331689 323438	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gi 5902482 EST singleton (not in UniGene) with exon CH.03_hs gi 5867811 CH.17_hs gi 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gi 5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon ESTs	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.52	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H560, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 MB-MDA-453, NCI-H460, NCI-H23 NCI-H69, EB, A549
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505 314032 336125 312765 3327585 323183 314418 313361 305632 331683 331683 331683 331683 331683	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gi 5902482 EST singleton (not in UniGene) with exon CH.03_hs gi 5807811 CH.17_hs gi 6056311 ESTs; Moderately similar to IIII ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gi 5867825 EST cluster (not in UniGene) ESTs; Moderately similar to IIII ALU SUB ESTs; Moderately similar to IIIII ALU SUB ESTS; Moderately similar to IIIII ALU SUB ESTS EST singleton (not in UniGene) with exon ESTs	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-231, DU145, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-H58 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 MB-MDA-453, NCI-H460, NCI-H23 NCI-H69, EB, A549 NCI-H345, PRSC_con, MB-MDA-231
331603 309403 337289 314242 328053 307215 327566 326338 316115 307437 322059 322505 314032 336125 312765 335528 327585 323183 314418 313361 305632 331683 231683 3315742 305971	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AJ359782 AA805276 W90131 AI540243 AI821724	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5902481 ESTs singleton (not in UniGene) with exon CH.03_hs glj5867811 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs ESTs H sapiens PAC clone DJ0872F07 from 7q31 EST singleton (not in UniGene) with exon	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-231, DU145, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H580, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 NCI-H345, NCI-H460, NCI-H23 NCI-H345, NCI-H460, NCI-H23 NCI-H345, PRSC_con, MB-MDA-231 MCF7, MB-MDA-453, MB-MDA-231 MCF7, MB-MDA-453, MB-MDA-231
331603 309403 337289 314242 32053 327566 326338 318115 322059 322505 314032 336125 312765 335523 327583 323183 314418 313361 305632 331689 323438 315742 305971 336633	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243 AI840243 AI840243 AI840243 AI86874	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs ESTs EST singleton (not in UniGene) with exon ESTs ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-4358, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 NCI-H69, EB, A549 NCI-H69, EB, A549 NCI-H645, PRSC_con, MB-MDA-231 MCF7, MB-MDA-433, NB-MDA-4358 NCI-H358, NCI-H320, NCI-H350 NCI-H345, PRSC_con, MB-MDA-231 MCF7, MB-MDA-433, MB-MDA-4358 NCI-358, NCI-H23, NCI-H520
331603 309403 337289 314249 228053 307215 327566 326338 318115 322505 314032 336125 336125 335523 327585 323183 314481 315632 331689 323438 315742 305971 305633 305971 305633	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AJ359782 AA805276 W90131 AI540243 AI821724	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gi 5902482 EST singleton (not in UniGene) with exon CH.03_hs gi 5867811 CH.17_hs gi 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gi 5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon	2.55 2.55 2.54 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.51 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H345, LnCap, DU145 NCI-H23, NCI-H520 HT29, BT474, OVCA-R HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 MB-MDA-453, NCI-H460, NCI-H23 NCI-H345, PRSC_con, MB-MDA-231 NCI-H345, PRSC_con, MB-MDA-231 NCF7, MB-MDA-453, NCI-H520 NCI-H69, NCI-H2345, PRSC_log
331603 309403 337289 314242 328053 307215 322566 326338 318115 322059 322505 314032 336125 312765 335523 327585 323183 314418 3136612 331689 323438 315742 305971 336532 336434 315742	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243 AI840243 AI840243 AI840243 AI86874	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs gi 5902482 EST singleton (not in UniGene) with exon CH.03_hs gi 5867811 CH.17_hs gi 6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs gi 5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH26_hs gi 5868172	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-231, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H345, LnCap, DU145 NCI-H23, NCI-H520, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 MB-MDA-453, NCI-H60, NCI-H23 NCI-H369, EB, A549 NCI-H345, PRSC_con, MB-MDA-231 MCF7, MB-MDA-453, NCI-H520 NCI-H69, BT474, MB-MDA-231
331603 309403 314242 328053 307215 327566 326338 318115 307437 322059 322505 314032 336125 312763 3357535 323183 314418 313361 305632 331683 315742 305971 336633 304975 336633	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243 AI840243 AI840243 AI840243 AI86874	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.572_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.683_4	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 MB-MDA-453, NCI-H460, NCI-H23 NCI-H69, EB, A549 NCI-H345, PRSC_con, MB-MDA-231 MCF7, MB-MDA-453, MB-MDA-435s NCI-H368, NCI-H23, NCI-H520 NCI-H69, BT474, MB-MDA-231 NCI-H69, BT474, MB-MDA-231 NCI-H69, BT474, MB-MDA-231 NCI-H69, BT474, MB-MDA-231
331603 309403 337289 314242 32853 307215 327566 326338 316115 307437 322059 322505 314032 336125 335523 327585 323183 314418 313361 305632 331683 323438 323438 323438 323438 323438 323438 323438 323438 32555 32383 33635 336055 328888	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243 AI821724 AA886874 AA577793	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817 Hs.143198	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.772_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.683_4 CH.07_hs glj6588003	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-231, MB-MDA-231 Caco2, MB-MDA-231, DU145, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-H58 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H358, NCI-H520 HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALUB, HT29, DU145 MB-MDA-453, NCI-H460, NCI-H23 NCI-H69, EB, A549 NCI-H345, PRSC_con, MB-MDA-231 MCF7, MB-MDA-453, MB-MDA-231 NCF7, MB-MDA-453, NCI-H520 NCI-H69, NCI-H345, PRSC_log NCI-H69, BT474, MB-MDA-231 NCI-358, NCI-H345, NCI-H460 EB, HT29, MB-MDA-231
331603 309403 337289 314242 328053 307215 327566 326338 318115 307437 322059 322505 314032 336125 3357585 323183 314418 313361 305632 335528 323438 315742 305971 336633 304746 327925 336055 328888 311244	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243 AI840243 AI840243 AI840243 AI86874	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817 Hs.143198	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.06_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 CH.17_hs glj6056311 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.701_10 ESTs; Moderately similar to !!!! ALU SUB ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.703_CH.03_hs glj5867825 EST cluster (not in UniGene) ESTS; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH.06_hs glj5868172 CH22_FGENES.683_4 CH.07_hs glj6588003 ESTs	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-435s, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H69, LnCap, DU145 NCI-H23, NCI-H520, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 CALU6, HT29, DU145 NCI-H69, EB, A549 NCI-H69, EB, A549 NCI-H69, BT474, OVCA-R NCI-H69, BT474, NCI-H520 NCI-H69, BT474, NCI-H520 NCI-H69, BT474, NCI-H520 NCI-H69, BR, A549 NCI-H345, PRSC_con, MB-MDA-231 MCF7, MB-MDA-453, MB-MDA-231 NCI-H69, BCI-H345, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H345, NCI-H60 EB, HT29, MB-MDA-231 MCI-358, NCI-358, NCI-H660 EB, HT29, MB-MDA-231 MB-MDA-435s, MB-MDA-231 MB-MDA-435s, MB-MDA-231 MCI-358, NCI-358, NCI-H660 EB, HT29, MB-MDA-231 MB-MDA-435s, MB-MDA-231
331603 309403 337289 314242 32853 307215 327566 326338 316115 307437 322059 322505 314032 336125 335523 327585 323183 314418 313361 305632 331683 323438 323438 323438 323438 323438 323438 323438 323438 32555 32383 33635 336055 328888	AW452360 N78656 AW082954 AI570943 AI193189 AI384027 AI245683 AA412371 AF147315 AW081897 AI692908 AW393850 AI478722 AI359782 AA805276 W90131 AI540243 AI821724 AA886874 AA577793	Hs.186770 Hs.161535 Hs.246280 Hs.159130 Hs.121344 Hs.193211 Hs.181873 Hs.232275 Hs.137312 Hs.184675 Hs.113817 Hs.143198	ESTs EST singleton (not in UniGene) with exon CH22_FGENES.672-8 ESTs CH.08_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5902482 EST singleton (not in UniGene) with exon CH.03_hs glj5867811 ESTs; Moderately similar to !!!! ALU SUB EST singleton (not in UniGene) with exon ESTs EST cluster (not in UniGene) ESTs CH22_FGENES.701_12 ESTs CH22_FGENES.772_3 CH.03_hs glj5867825 EST cluster (not in UniGene) ESTs; Moderately similar to !!!! ALU SUB ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.13-3 EST singleton (not in UniGene) with exon CH22_FGENES.683_4 CH.07_hs glj6588003	2.55 2.55 2.55 2.54 2.54 2.53 2.53 2.53 2.53 2.52 2.52 2.52 2.51 2.51 2.51 2.51 2.51	NCI-H460, NCI-H23, HT29 NCI-H345, NCI-H69, PRSC_con NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7 BT474, HT29, MB-MDA-231 Caco2, MB-MDA-4358, MB-MDA-453 MB-MDA-231, DU145, MB-MDA-453 HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345 PC3, A549, DU145 DU145, EB, PC3 NCI-H23, NCI-H520, NCI-358 EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69 NCI-H345, LnCap, DU145 NCI-H345, LnCap, DU145 NCI-H23, NCI-H520 HT29, BT474, OVCA-R HT29, BT474, OVCA-R HT29, NCI-H460, MB-MDA-453 MB-MDA-231, LnCap, RPWE-2 EB, DU145, DU145 CALU6, HT29, DU145 MB-MDA-453, NCI-H460, NCI-H23 NCI-H345, PRSC_con, MB-MDA-231 NCI-H345, PRSC_con, MB-MDA-231 NCI-H345, NCI-H345, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H345, MB-MDA-231 NCI-358, NCI-H358, NCI-H460 EB, HT29, MB-MDA-231 NCI-358, NCI-H358, NCI-H460 EB, HT29, MB-MDA-231 MB-MDA-4358, MB-MDA-231 MB-MDA-4358, MB-MDA-231 MCI-H345, MCF7, PC3

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	A A04000C	Un 420400	ror.	0.40	DUMAE AEAD AEAD
339435	AA910236	ns. 139409		2.48	DU145, A549, A549
			CH22_DJ579N16.GENSCAN.18-10	2.48	NCI-H69, MCF7, BT474
334172			CH22_FGENES.349_5	2.48	NCI-H69, NCI-H345, PRSC_log
	AA299525		EST cluster (not in UniGene)	2.48	NCI-358, NCI-H23, NCI-H460
336772			CH22_FGENES.156-1	2,47	NCI-358, NCI-358, NCI-H23
326957			CH.21_hs gij6469836	2.47	BT474, RPWE-2, PRSC_con
	Al686615	Hs.200778	EST; Wealty similar to SALIVARY PROLINE-		MCF7, MB-MDA-453, MB-MDA-435s
	AB033100		EST duster (not in UniGene)	2.47	EB, CALU6, A549
	AW291092	Hs.201058	ESTs	2.47	NCI-H345, PRSC_con, RPWE-2
338325			CH22_EM:AC005500.GENSCAN.307-7	2.46	BT474, LnCap, EB
307877	Al368880		EST singleton (not in UniGene) with exon	2.46	NCI-H23, PRSC_log, NCI-H520
311525	Al799444	Hs.247095	ESTs; Moderately similar to IIII ALU SUB	2.46	PRSC_con, PRSC_log, NCI-H345
337023			CH22_FGENES.433-12	2.46	OVCA-R, CALU6, PRSC_con
300916	AI361798	Hs.164675		2.45	LnCap, DU145, CALU6
	AL137382		EST cluster (not in UniGene) with exon h	2.45	LnCap, MB-MDA-231, CALU6
		Hs.137154	H sapiens mRNA full length insert cDNA c	2.45	BT474, MB-MDA-231, MB-MDA-453
	AI097439	Hs.135548		2.45	NCI-H460, MB-MDA-453, NCI-H345
			ESTs; Weakly similar to alternatively sp	2.45	OVCA-R, PC3, EB
326763			CH.20_hs glj6598307	2.45	NCI-H69, NCI-H345, RPWE-2
	AW408392		EST cluster (not in UniGene)	2.45	Caco2, NCI-H460, NCI-H23
	AA586368	He 100222		2.45	PRSC_con, NCI-H345, MB-MDA-231
	AW237699			2.44	NCI-H345, PRSC_log, PRSC_con
		N3. 1 10340	EST cluster (not in UniGene)	2.44	
336510	AW299374			_	PC3, DU145, OVCA-R
			CH22_FGENES.834_5	2.44	NCI-H69, RPWE-2, PRSC_con
326876	41040500	11- 400400	CH.20_hs gi 6682507	2.44	NCI-H23, NCI-H460, NCI-H520
			ribosomal protein S2	2.44	NCI-H23, NCI-H460, Caco2
	M78728	Hs.132694		2.44	NCI-H345, NCI-H69, RPWE-2
313877	AA767869	Hs.250113	ESTs; Moderately similar to thyroid horm		
			component TRAP150 [H.saplens]	2.44	DU145, LnCap, CALU6
	AW029203			2.43	EB, DU145, OVCA-R
		Hs.142287	ESTs; Weakly similar to IIII ALU CLASS F	2.43	NCI-H345, RPWE-2, EB
317733	AI028257	Hs.132317	ESTs	2.43	CALU6, RPWE-2, OVCA-R
313599	AA748749	Hs.136742	ESTs	2.42	NCI-H460, NCI-358, NCI-H520
323014	AA305198		EST cluster (not in UniGene)	2.42	PRSC_con, NCI-H460, RPWE-2
324980	AA969121	Hs.254296		2.41	MCF7, OVCA-R, PC3
301326	AA883831	Hs.252924	ESTs	2.41	PRSC_con, PRSC_log, RPWE-2
308695	AI763350		EST singleton (not in UniGene) with exon	2.41	RPWE-2, NCI-H69, NCI-H345
330166			CH.02_p2 gij6648220	2.41	CALU6, DU145, A549
317552	AW451400	Hs.127019		2.41	NCI-358, NCI-358, NCI-H23
320572	A1929508	Hs.159590	lymphocyte antigen 6 complex; locus H	2.41	
			lymphocyte antigen 6 complex; locus H ESTs; Weakly similar to TRANSCRIPTION FA	2.41	CALU6, HT29, A549
315618	Al287341	Hs.154029	ESTs; Weakly similar to TRANSCRIPTION FA	2.41 2.41	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231
315618 331610	Al287341 N91109	Hs.154029 Hs.54681	ESTs; Weakly similar to TRANSCRIPTION FA	2.41 \2.41 2.41	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358
315618 331610 311731	Al287341 N91109 AW393528	Hs.154029 Hs.54681 Hs.246875	ESTs; Wealdy similar to TRANSCRIPTION FA ESTs ESTs	2.41 2.41 2.41 2.41	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con
315618 331610 311731 318571	Al287341 N91109 AW393528	Hs.154029 Hs.54681	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS	2.41 12.41 2.41 2.41 2.41	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520
315618 331610 311731 318571 334958	Al287341 N91109 AW393528 Z43383	Hs.154029 Hs.54681 Hs.246875 Hs.8053	ÉSTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27	2.41 12.41 2.41 2.41 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2
315618 331610 311731 318571 334958 323570	Al287341 N91109 AW393528 Z43383 AL038623	Hs.154029 Hs.54681 Hs.246875 Hs.8053	ÉSTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTS; Weakly similar to !!!! ALU SUBFAMI	2.41 12.41 2.41 2.41 2.41 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474
315618 331610 311731 318571 334958 323570 301685	Al287341 N91109 AW393528 Z43383 AL038623 W67730	Hs.154029 Hs.54681 Hs.246875 Hs.8053	ESTs; Weakly similar to TRANSCRIPTION FA ESTs ESTs ESTs CH22_FGENES.465_27 ESTs; Weakly similar to III! ALU SUBFAMI EST cluster (not in UniGene) with exon h	2.41 12.41 2.41 2.41 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB
315618 331610 311731 318571 334958 323570 301685 303849	Al287341 N91109 AW393528 Z43383 AL038623	Hs.154029 Hs.54681 Hs.246875 Hs.8053	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h	241 241 241 241 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345
315618 331610 311731 318571 334958 323570 301685 303849 325702	Al287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028	241 241 241 241 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H520
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261	Hs.154029 Hs.54681 Hs.246875 Hs.8053	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTS	241 241 241 241 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994	Al287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to IIII ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon	2.41 2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H350 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162	241 241 241 241 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gil5867028 ESTS EST singleton (not in UniGene) with exon CH.08_p2 gil5457162 CH.01_hs gil5867470	241 241 241 241 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to IIII ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140	241 241 241 241 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7
315618 331610 311731 318571 334958 323570 301685 303849 32579 313074 308994 30338 327274 325953 333281	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS ESTS ESTS; ESTS; ESTS; Useakly similar to IIII ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTS EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867440 CH22_FGENES.128_7	241 241 241 241 24 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_CON, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 33038 327274 225953 333281 314778	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171	ÉSTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 32595 333281 314778 317005	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171	ESTs; Weakly similar to TRANSCRIPTION FA ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H350 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU1445, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333281 314778 3147705 334257	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171	ESTs; Wealdy similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Wealdy similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs ESTS ESTS	241 241 241 24 24 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, H729, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333281 314778 317078 317078 317078	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.127171	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gil5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gil5457162 CH.01_hs gil5867470 CH.16_hs gil5867470 CH.16_hs gil5867140 CH22_FGENES.128_7 ESTs ESTS CH22_FGENES.367_5 EST cluster (not in UniGene)	241 241 241 24 24 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-4358, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-453
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333281 314778 31708 334257 324783 300949	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs ESTS ESTS ESTS ESTS ESTS CH22_FGENES.367_5 EST cluster (not in UniGene) ESTS	241 241 241 24 24 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H60, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-4358, MCF7 NCI-H23, H729, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log
315618 331610 311731 318571 334958 322570 301685 302849 325702 313074 308994 330338 327274 325953 333281 314778 317005 334257 324783 300949 314957	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs CH22_FGENES.128_7 ESTs CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTs; Moderately similar to !!!! ALU SUB	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-455 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 32595 334257 324783 3014957 324350	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH.16_hs gij5867140 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs ESTS CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTS; Moderately similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-231 EB, OVCA-R, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23
315618 331610 311731 318571 334958 323570 301685 303849 32570 313074 308994 330338 327274 32595 333281 314778 317005 334257 324783 301495 314350 338235	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs ESTs CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H350 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-435, MB-MDA-4358, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H23, NCI-H23
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333281 314778 314978 314978 314978 31495 324783 30949 31495 324350 338235 300937	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867440 CH22_FGENES.128_7 ESTs ESTs ESTs ESTs ESTs ESTs ESTs CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTs; Moderately similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16	241 241 241 24 24 24 24 24 24 24 24 24 24 24 24 24	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H3520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-4358, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H23, NCI-H23 NCI-H69, NCI-H460, NCI-H23 PRSC_log, PRSC_con
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333281 3147705 334257 324783 300949 314957 324350 338235 300937 317439	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAM! EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gil5867028 ESTs ESTS EST singleton (not in UniGene) with exon CH.08_p2 gil5457162 CH.01_hs gil5867470 CH.16_hs gil5867470 CH.16_hs gil5867470 CH.22_FGENES.128_7 ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	241 241 241 24 24 24 24 24 24 24 24 24 24 24 24 22 23 238 238 238 238 238 238 238 238 2	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-231 MB-MDA-453, MB-MDA-4358, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-253 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H346, NCI-H23 NCI-H69, NCI-H346, NCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333281 317705 334257 324783 300949 314957 324350 338235 339237 317439 324745	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gil5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gil5457162 CH.01_hs gil5867470 CH.16_hs gil5867470 CH.16_hs gil5867410 CH22_FGENES.128_7 ESTs ESTs ESTs ESTs ESTS CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTs; Weakly similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTS ESTS ESTS ESTS; Weakly similar to !!!! ALU SUBFAMI	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-231 MB-MDA-331, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H345, NCI-H23 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H358, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H358, MCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB NCI-358, NCI-H460, BT474
315618 331610 311731 318571 334958 322570 301685 303849 325702 313074 308994 330338 327274 32593 314778 317005 334257 324350 338235 300937 317435 300937 317435 338235 300937 317435 338235	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327 AI742120	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623 Hs.116506	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTS; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867140 CH.16_hs gij5867140 CH.16_hs gij5867140 CH22_FGENES.128_7 ESTs ESTs ESTs CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTs; Weakly similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTS ESTS; Weakly similar to !!!! ALU SUBFAMI CH22_EM:AC005500.GENSCAN.302-2	2.41 2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H460, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H460, NCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB NCI-H369, PRSC_con, PRSC_log
315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 32595 333281 31705 334257 324783 301495 324783 30995 317478 31749 324350 338235 30937 317439 324763 338266 318765	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327 AI742120 Z42071	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.27623 Hs.116506 Hs.23961	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTs EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867470 CH.16_hs gij5867440 CH.16_hs gij5867140 CH.22_FGENES.128_7 ESTs ESTs ESTs CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTs; Weakly similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTs ESTs ESTs ESTs; Weakly similar to !!!! ALU SUBFAMI CH22_EM:AC005500.GENSCAN.302-2 ESTS	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H362 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H23, NCI-H23 NCI-H69, NCI-H460, NCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB NCI-H69, NCI-H460, BT474 NCI-H69, PRSC_con, PRSC_log LnCap, DU145, EB NCI-H69, NCI-H460, BT474 NCI-H69, PRSC_con, PRSC_log LnCap, NCI-H23, NCI-H520
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315618 331610 311731 318571 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 334257 324783 300949 314957 324750 338235 300937 317439 324745 338306 318765 310254 305116 324016	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327 AI742120 Z42071 AI239811 AA649244 AL045285	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623 Hs.116506 Hs.23961 Hs.157491	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAM! EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gil5867028 ESTs ESTS ESTS singleton (not in UniGene) with exon CH.08_p2 gil5457162 CH.01_hs gil5867470 CH.16_hs gil5867470 CH.16_hs gil5867470 CH.16_hs gil5867470 CH.22_FGENES.128_7 ESTs ESTs ESTS ESTS ESTS ESTS ESTS chuster (not in UniGene) ESTS ESTS; Weakly similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H3460, NCI-H23 PRSC_Jog, PRSC_con, PRSC_con A549, DU145, EB NCI-358, NCI-H460, BT474 NCI-H69, PRSC_con, PRSC_log LnCap, NCI-H23, NCI-H520 OVCA-R, DU145, EB CALU6, MB-MDA-435s, MB-MDA-453 EB, DU145, COCA-R OVCA-R, EB, A549 PRSC_Jog, PRSC_con, NCI-H69
315618 331610 311731 318571 318571 301685 303849 325702 313074 308994 330338 327274 32595 334257 324783 301495 324783 309495 324745 338235 30937 317439 324745 338235 318765 310254 305116 322774 335745	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327 AI742120 Z42071 AI239811 AA649244 AL045285	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623 Hs.116506 Hs.23961 Hs.157491	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS ESTS CH22_FGENES.465_27 ESTS; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTS EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867470 CH.16_hs gij5867140 CH.16_hs gij5867140 CH.22_FGENES.128_7 ESTS ESTS CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTS; Weakly similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.41 2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H346, NCI-H345 NCI-H23, NCI-H346, NCI-H3520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU1445, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, NB-MDA-231 EB, OVCA-R, NB-MDA-231 EB, OVCA-R, NB-MDA-231 CH-69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H23, NCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB NCI-358, NCI-H360, BT474 NCI-H69, PRSC_con, PRSC_log LnCap, NCI-H23, NCI-H520 OVCA-R, DU145, EB CALU6, MB-MDA-435s, MB-MDA-453 EB, DU145, EB CALU6, MB-MDA-435s, MB-MDA-453 EB, DU145, EB PRSC_log, PRSC_con, NCI-H69 PRSC_log, NCI-H345, PRSC_log
315618 331610 311731 318571 318571 301685 303849 325702 313074 308994 330338 327274 32595 334257 324783 301495 324783 309495 324745 338235 30937 317439 324745 338235 318765 310254 305116 322774 335745	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327 AI742120 Z42071 AI239811 AA649244 AL045285 AA131111	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623 Hs.116506 Hs.23961 Hs.246849	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS ESTS CH22_FGENES.465_27 ESTS; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTS EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867470 CH.16_hs gij5867140 CH.16_hs gij5867140 CH.22_FGENES.128_7 ESTS ESTS CH22_FGENES.367_5 EST cluster (not in UniGene) ESTs ESTS; Weakly similar to !!!! ALU SUB ESTs; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H23, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H360, NCI-H350 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU145, MB-MDA-231 MB-MDA-433, MB-MDA-4358, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, MB-MDA-453 NCI-H69, NCI-H345, PSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H345, PRSC_log LnCap, DU145, EB NCI-358, NCI-H60, NCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB NCI-358, NCI-H60, BT474 NCI-H69, PRSC_con, PRSC_log LnCap, NCI-H23, NCI-H520 OVCA-R, DU145, EB CALU6, MB-MDA-435s, MB-MDA-453 EB, DU145, OVCA-R OVCA-R, EB, A549 PRSC_log, PRSC_con, NCI-H69 NCI-H23, NCI-H345, PRSC_log NCI-H23, NCI-H3520
315618 331610 311731 334958 323570 301685 303849 325702 313074 308994 330338 327274 325953 333287 314778 314778 314978 31493 324743 338235 300937 317439 324746 3387456 310254 305116 322774 335745 335745 335745 335745	AI287341 N91109 AW393528 Z43383 AL038623 W67730 AW163324 N48261 AI880051 AW079559 AI800251 AA640770 AA534325 AW029274 AW292501 AW297302 AW451327 AI742120 Z42071 AI239811 AA649244 AL045285 AA131111	Hs.154029 Hs.54681 Hs.246875 Hs.8053 Hs.208752 Hs.127171 Hs.152258 Hs.197773 Hs.162183 Hs.208368 Hs.157174 Hs.255631 Hs.170623 Hs.116506 Hs.23961 Hs.246849	ESTs; Weakly similar to TRANSCRIPTION FAESTS ESTS ESTS ESTS ESTS CH22_FGENES.465_27 ESTs; Weakly similar to !!!! ALU SUBFAMI EST cluster (not in UniGene) with exon h EST cluster (not in UniGene) with exon h CH.14_hs gij5867028 ESTS EST singleton (not in UniGene) with exon CH.08_p2 gij5457162 CH.01_hs gij5867470 CH.16_hs gij5867440 CH22_FGENES.128_7 ESTs ESTS ESTS ESTS CH22_FGENES.367_5 EST cluster (not in UniGene) ESTS ESTS ESTS; Weakly similar to !!!! ALU SUB ESTS; Weakly similar to similar to SH3-b CH22_EM:AC005500.GENSCAN.260-16 ESTS ESTS ESTS ESTS ESTS ESTS: Stagleton (not in UniGene) with exon ESTS; Moderately similar to !!!! ALU SUBFAMI CH22_EM:AC005500.GENSCAN.302-2 ESTS EST singleton (not in UniGene) with exon ESTS; Moderately similar to !!!! ALU SUB EST cluster (not in UniGene) CH22_FGENES.601_16 ESTS CH22_EM:AC005500.GENSCAN.531-10	2.41 2.41 2.41 2.41 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	CALU6, HT29, A549 OVCA-R, Caco2, MB-MDA-231 NCI-H23, NCI-H520, NCI-358 NCI-H69, NCI-H345, PRSC_con NCI-358, NCI-H520 DU145, PRSC_con, RPWE-2 OVCA-R, EB, BT474 MB-MDA-231, NCI-H345, EB RPWE-2, PRSC_log, NCI-H345 NCI-H23, NCI-H346, NCI-H345 NCI-H23, NCI-H346, NCI-H3520 MB-MDA-231, RPWE-2, PRSC_log RPWE-2, EB, PRSC_con DU145, EB, LnCap OVCA-R, DU1445, MB-MDA-231 MB-MDA-453, MB-MDA-435s, MCF7 NCI-H23, HT29, DU145 EB, CALU6, Caco2 MB-MDA-231, BT474, HT29 HT29, NCI-358, MB-MDA-231 EB, OVCA-R, NB-MDA-231 EB, OVCA-R, NB-MDA-231 EB, OVCA-R, NB-MDA-231 CH-69, NCI-H345, PRSC_log LnCap, DU145, DU145 HT29, NCI-H23, NCI-H23 NCI-H69, NCI-H23, NCI-H23 PRSC_log, PRSC_con, PRSC_con A549, DU145, EB NCI-358, NCI-H360, BT474 NCI-H69, PRSC_con, PRSC_log LnCap, NCI-H23, NCI-H520 OVCA-R, DU145, EB CALU6, MB-MDA-435s, MB-MDA-453 EB, DU145, EB CALU6, MB-MDA-435s, MB-MDA-453 EB, DU145, EB PRSC_log, PRSC_con, NCI-H69 PRSC_log, NCI-H345, PRSC_log

224200	A 1047400	11- 447000	FOT-	0.07	DT474 NOLUCE LITTE
	AI247480	Hs.117029		2.37	BT474, NCI-H69, HT29
335747	AA299492	H\$.100100		2.37	LnCap, EB, MB-MDA-453
	A E020007		CH22_FGENES.601_20	2.36	NCHH69, LnCap, PRSC_con
	AF039697	Un 70440	EST cluster (not in UniGene)	2.36	DU145, PRSC_con, NCI-H345
314430		Hs.78110		2.36	DU145, MB-MDA-453, CALU6
337432	AA586422		EST singleton (not in UniGene) with exon	2.36	NCI-H23, NCI-H460, CALU6 MB-MDA-231, BT474, HT29
	AA887654		CH22_FGENES.765-1	2.36 2.36	DU145, HT29, CALU6
	AW134523	Un 247196	EST singleton (not in UniGene) with exon	2.36	DU145, A549, CALU6
	A1889109			2.36	NCI-35B, NCI-H520, NCI-H23
	Al679966			2.35	NCHH460, Caco2, NCI-H23
334198	MI01 3300	115.150000	CH22_FGENES.354_4	2.35	NCI-H69, PRSC_log, PRSC_con
	Al217440	He 143873		2.35	Caco2, A549, PC3
333346	CILLIA THO	113.170010	CH22_FGENES.139_15	2.35	CALU6, DU145, LnCap
325408			CH.12_hs gi 5866921	2.35	NCI-H460, NCI-H520, NCI-H23
	AA076743	Hs 129770		2.35	NCI-H23, MB-MDA-435s, NCI-H345
	AW293701	7.0	EST singleton (not in UniGene) with exon	2.35	NCI-H460, NCI-H23, NCI-H520
	R55497	Hs.183941	ESTs; Moderately similar to H beta 58 ho	2.35	DU145, CALU6, NCI-H520
	N51583	Hs.133756		2.35	NCI-H23, NCI-H520, NCI-358
325164		Hs.21963		2.34	NCI-H345, PRSC_log, NCI-H460
327710			CH.04_hs gij5867860	2.34	BT474, MB-MDA-231, NCI-H345
306351	AA961356		EST singleton (not in UniGene) with exon	2.34	BT474, MB-MDA-231, MB-MDA-435s
	AA614308		EST singleton (not in UniGene) with exon	2.34	CALU6, HT29, MB-MDA-453
334015			CH22_FGENES.313_7	2.34	HT29, MB-MDA-231, BT474
318315	Al091370	Hs.134852	ESTs	2.33	CALU6, NCI-H520, DU145
306809	AI057134		EST singleton (not in UniGene) with exon	2.33	PC3, DU145, EB
337697			CH22_EM:AC000097.GENSCAN.86-1	2.33	RPWE-2, PRSC_log, NCI-H345
329630			CH.11_p2 gij6729060	2.33	NCI-H520, NCI-H23, NCI-H460
326577			CH.19_hs gij5867317	2.33	NCI-H460, NCI-358, NCI-H23
333428			CH22_FGENES.149_1	2.33	NCHH345, PRSC_con, RPWE-2
	Al479391	Hs.155405	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.33	OVCA-R, MCF7, MCF7
	AA714311		EST cluster (not in UniGene)	2.33	NCI-H460, NCI-358, NCI-H23
	AJ133798		EST cluster (not in UniGene) with exon h	2.32	NCI-H23, NCI-H460, NCI-H520
325801		11 440000	CH.14_hs gi 6552451	2.32	PRSC_log, MCF7, NCI-H23
	AA609698			2.32	DU145, HT29, PC3
	AA243633			2.32	DU145, MCF7, PC3
	AA669615	HS.214226		2.31	DU145, NCHH345, EB
	NM_00589		EST cluster (not in UniGene)	2.31	A549, OVCA-R, PC3
	T98289		EST cluster (not in UniGene)	2.31 2.31	NCI-H23, Caco2, NCI-H69 DU145, OVCA-R, EB
	AA078293 AA527359	Un 45/200	EST cluster (not in UniGene)	2.31	NCHH345, DU145, EB
336455	MM321 333	NS. 104300	CH22_FGENES.829_13	2.31	NCI-H345, PRSC_con, RPWE-2
	AW292127	No 444758		2.31	MCF7, DU145, OVCA-R
	H93135		ESTs	2.31	Caco2, NCI-H460, NCI-H23
333054	1100100	113,71010	CH22_FGENES.73_8	2.31	NCI-H69, NCI-358, NCI-H23
	Al719237		EST singleton (not in UniGene) with exon	2.31	OVCA-R, CALU6, Caco2
327059			CH.21_hs gli6531965	2.3	NCI-H460, LnCap, LnCap
334120			CH22_FGENES.333_1	2.3	NCI-H69, RPWE-2, MB-MDA-435s
	AI457449	Hs.192817		2.3	NCI-H460, MB-MDA-453, NCI-358
326509			CH.19_hs gi 6682496	2.3	NCI-H345, CALU6, OVCA-R
316855	AW291384	Hs.254974		2.3	NCI-H345, NCI-H460, BT474
337918			CH22_EM:AC005500.GENSCAN.66-4	2.3	RPWE-2, NCHH345, PRSC_log
317471	AI825351	Hs.144084	ESTs	2.29	HT29, OVCA-R, DU145
	N32599	Hs.5856	ESTs	2.29	OVCA-R, LnCap, A549
	N48008	Hs.102629		2.29	CALU6, DU145, EB
	AW339671		EST singleton (not in UniGene) with exon	2.29	MB-MDA-435s, PRSC_con, NCI-358
	Al241019			2.29	Caco2, HT29, EB
	AW293704	Hs.122658		2.29	OVCA-R, DU145, Caco2
335019	E000E4		CH22_FGENES.474_7	2.29	HT29, CALU6, MB-MDA-231
	F20654	HS.152128	ESTs; Moderately similar to IIII ALU SUB	2.29	NCI-H345, MB-MDA-231, RPWE-2 NCI-H69, OVCA-R, BT474
339357	AlaAcoaa		CH22_BA354I12.GENSCAN.31-2	2.29 2.28	NCI-H23, NCI-H520, NCI-H460
	Al346033 Al239457	He 120704	EST cluster (not in UniGene)	2.28	OVCA-R, DU145, MB-MDA-231
	A1233437 A1929130	Hs.130794	ESTs; Moderately similar to finger prote	2.28	BT474, RPWE-2, PRSC_con
	AL135534	FIS. 1 1020 1	EST cluster (not in UniGene)	2.27	NCI-H345, NCI-358, Caco2
	A1634885		EST singleton (not in UniGene) with exon	2.27	OVCA-R, EB, HT29
	AI133446		EST cluster (not in UniGene)	2.27	DU145, MB-MDA-435s, OVCA-R
338381	AIIOOTTO		CH22_EM:AC005500.GENSCAN.330-10	2.27	NCI-H69, PRSC_con, PRSC_log
	AA704584	Hs.119993		2.27	NCI-358, NCI-H520, NCI-H23
	Al161024		EST singleton (not in UniGene) with exon	2.27	NCI-H345, DU145, RPWE-2
	AA758411	Hs.121335		2.27	LnCap, NCI-H460, Caco2
	AA431328	Hs.98660	ESTs	2.27	NCI-358, NCI-H520, CALU6
	H02566	Hs.191268	H sapiens mRNA; cDNA DKFZp434N174 (fro		2.27 OVCA-R, BT474, BT474
	AA773111	-	EST singleton (not in UniGene) with exon	2.27	LnCap, DU145, BT474
	AA776743	Hs.191589		2.26	NCI-H345, RPWE-2, PRSC_con
333929			CH22_FGENES.300_2	2.26	HT29, CALU6, EB

319845	AA649011	Hs.187902	ESTs	2.26	LnCap, DU145, MCF7
	AI028393		EST singleton (not in UniGene) with exon	2.26	MB-MDA-435s, NCI-358, CALU6
	AI096832		EST singleton (not in UniGene) with exon	2.26	HT29, BT474, PC3
333312 334955			CH22_FGENES.138_4	2.26 2.25	OVCA-R, DU145, PC3 RPWE-2, PRSC_con, NCI-H345
	AA578233	Hs.173863	CH22_FGENES.465_24 ESTs	2.25	OVCA-R, DU145, NCI-H345
	Al302124	1101110000	EST singleton (not in UniGene) with exon	2.25	CALU6, CALU6, OVCA-R
	AA421989		EST cluster (not in UniGene)	2.25	OVCA-R, EB, A549
309767	AW271805		EST singleton (not in UniGene) with exon	2.25	DU145, NCI-H460, CALU6
	AW410240		ribosomal protein L28	2.25	NCI-H69, NCI-H460, NCI-H520
312260 327125	H05392	Hs.230597		2.25 2.25	Caco2, EB, DU145 HT29, NCI-358, BT474
	A A 9 A 5 3 9 2	Hs.204520	CH.21_hs gli6531971	2.23	NCI-H23, NCI-H345, NCI-H520
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.24	DU145, EB, PC3
		Hs.158893		2.24	OVCA-R, EB, LnCap
320236			EST cluster (not in UniGene)	2.24	NCI-358, DU145, NCI-H23
	AW138821	Hs.221737	ESTs	2.24	NCI-358, CALU6, PRSC_con
333903			CH22_FGENES.294_1	2.24	MB-MDA-231, BT474, A549
335234 333727			CH22_FGENES.515_3 CH22_FGENES.256_1	2.24 2.23	NCI-H69, PRSC_con, PRSC_log MB-MDA-231, NCI-H69, BT474
	AA482009	Hs.105104		2.23	EB, NCI-H520, HT29
329611		1.0.100101	CH.10_p2 gi 3962478	2.23	BT474, HT29, MB-MDA-231
	AI783594	Hs.155718	,	2.22	BT474, MCF7, MB-MDA-231
327315			CH.01_hs gi 5867508	2.22	NCI-H69, EB, EB
	U83527	11- 447040	EST cluster (not in UniGene)	2.22	EB, DU145, LnCap
	N49309	Hs.117012 Hs.142805		2.22 2.22	A549, LnCap, DU145 OVCA-R, PC3, LnCap
	R97191	Hs.134106		2.22	BT474, MCF7, OVCA-R
325055		Hs.21658		2.22	MB-MDA-453, DU145, CALU6
337895			CH22_EM:AC005500.GENSCAN.56-2	2.22	NCI-H345, PRSC_tog, PRSC_con
307140	Al185762		EST singleton (not in UniGene) with exon	2.22	NCI-H520, NCI-H460, EB
	W76005	Hs.32094	ESTs	2.21	EB, NCI-H345, PRSC_con
	X85153		EST cluster (not in UniGene) with exon h	2.21	BT474, MB-MDA-231, MCF7
	AA340904	Hs.75137	EST cluster (not in UniGene) KIAA0193 gene product	2.21 2.21	NCI-H460, NCI-H23, NCI-H520 CALU6, A549, Caco2
	D83777 AF120491	NS.70107	EST duster (not in UniGene) with exon h	2.21	NCI-H69, NCI-H345, PC3
326710	A IEUTOI		CH.20_hs gij5867593	2.21	NCI-H520, NCI-358, NCI-H23
	AA825426	Hs.238832	ESTs; Wealdy similar to !!!! ALU SUBFAMI	2.21	NCI-H345, DU145, NCI-H69
337706			CH22_EM:AC000097.GENSCAN.87-11	2.21	MB-MDA-435s, NCI-358, NCI-H520
339309			CH22_BA354I12.GENSCAN.22-7	2.21	BT474, HT29, PC3
	HG2724-H	Un 400079	Oncogene Tis/Chop, Fusion Activated	2.21 2.21	PRSC_con, NCI-H69, Caco2 OVCA-R, MB-MDA-435s, DU145
	AI922972 AF053356	Hs.196073	multiple UniGene matches	2.2	NCI-H69, HT29, NCI-H23
	T55182	Hs.152571	ESTs; Highly similar to IGF-II mRNA-bind	2.2	OVCA-R, PC3, CALU6
		Hs.204516		2.2	LnCap, OVCA-R, EB
337904			CH22_EM:AC005500.GENSCAN.56-17	2.2	OVCA-R, LnCap, EB
	Al565612		EST singleton (not in UniGene) with exon	2.2	DU145, MB-MDA-231, CALU6 DU145, EB, LnCap
320965	H18166		EST cluster (not in UniGene) CH22_FGENES.295_3	2.2 2.2	DU145, MB-MDA-231, EB
	AA080921		EST cluster (not in UniGene) with exon h	2.2	BT474, MCF7, HT29
336011	74100021		CH22_FGENES.668_9	2.19	NCI-H460, BT474, NCI-H345
325712			CH.14_hs gi 6682473	2.19	NCI-H460, NCI-H23, NCI-358
	AF201832		EST duster (not in UniGene)	2.19	PC3, RPWE-2, PRSC_con
335339	4.700.400	11- 404407	CH22_FGENES.535_16	2.19	HT29, PRSC_log, MCF7 DU145, EB, Caco2
		Hs.134407 Hs.187505		2.19 2.19	NCLH345, PRSC_log, PRSC_con
337132	AAU1 3420	115.107.505	CH22_FGENES.526-3	2.19	NCI-H69, NCI-H345, PRSC_con
	A!951651	Hs.224290		2.19	PRSC_con, MB-MDA-231, NCI-H23
325285			CH.11_hs glj5866903	2.18	PRSC_con, PRSC_log, MB-MDA-231
338280			CH22_EM:AC005500.GENSCAN.290-11	2.18	PC3, NCI-358, HT29
	AI701635	Hs.207077		2.18	RPWE-2, NCI-H345, NCI-358 HT29, MB-MDA-435s, MB-MDA-453
	X89576	MS.159581	matrix metalloproteinase 17 (membrane-in CH.20_hs glj6056312	2.18 2.18	CALU6, DU145, HT29
326603	AA412305		EST duster (not in UniGene)	2.18	A549, OVCA-R, MB-MDA-435s
335451	741712000		CH22_FGENES.562_9	2.18	DU145, LnCap, CALU6
	Al203009	Hs.130664		2.18	NCI-H345, NCI-H69, NCI-H520
322024	AA334384		EST duster (not in UniGene)	2.18	Caco2, PC3, NCI-H520
		Hs.240951		2.18	NCI-358, A549, EB
	T02990		EST singleton (not in UniGene) with exon	2.18	NCI-H23, NCI-358, NCI-H460 NCI-H23, Caco2, Caco2
330082		Hs.189831	CH.19_p2 g1/6015314	2.18 2.18	BT474, HT29, MB-MDA-231
333932		110.103031	CH22_FGENES.300_5	2.17	PC3, Caco2, EB
	AI479071		EST singleton (not in UniGene) with exon	2.17	BT474, OVCA-R, OVCA-R
320184	U91510	Hs.123036	CD39-like 1	2.17	NCI-H520, NCI-358, NCI-H23
	AA464510		EST cluster (not in UniGene)	2.17	CALU6, RPWE-2, HT29 OVCA-R, PC3, BT474
320862	AI832098		EST cluster (not in UniGene)	2.17	Office of Plate

242254	1100000		TOT 1 -4 - 4 - 41 - 14-10 3	0.43	1101 11100 1101 1100 1101 050
	H03952		EST cluster (not in UniGene)	2.17	NCI-H460, NCI-H23, NCI-358
	AW340486	Hs.121210		2.17	NCI-H520, NCI-358, NCI-H23
	AA627127		EST singleton (not in UniGene) with exon	2.17	MB-MDA-231, MB-MDA-453, EB
303807	A1792785	Hs.130434	ESTs .	2.16	NCI-H345, PRSC_con, PRSC_log
317792	A1653389	Hs.196121	ESTs	2.16	NCI-H345, PRSC_con, LnCap
321668	AA872730	Hs.125229	ESTs	2.16	OVCA-R, PC3, MCF7
328863			CH.07_hs glj6381929	2.16	PRSC_con, NCI-H345, NCI-H460
	R00371		EST cluster (not in UniGene)	2.16	PRSC_con, RPWE-2, NCI-H345
	T86541	Ho 400720			
		Hs.189732		2.16	NCI-H23, NCI-358, NCI-H345
	Aru04090	HS.129/08	tumor necrosis factor (ligand) superfami	2.16	NCI-H23, NCI-H460, NCI-H520
338880			CH22_DJ32I10.GENSCAN.6-2	2.16	BT474, MCF7, OVCA-R
318314	AI091349	Hs.161133	ESTs	2.16	NCI-H23, NCI-H520, NCI-H460
332696	D86973	Hs.75354	GCN1 (general control of amino-acid synt	2.16	A549, PC3, DU145
331352	AA406133	Hs.7482	KIAA0682 gene product	2.16	PC3, EB, MB-MDA-231
339019			CH22_DA59H18.GENSCAN.21-15	2.15	LnCap, EB, OVCA-R
	Al127042		EST singleton (not in UniGene) with exon	2.15	MB-MDA-435s, NCI-H520, NCI-358
	AI024557	He 131540		2.15	Caco2, Caco2, BT474
	AW205686			2.15	
					NCI-H460, NCI-H23, NCI-358
	AA433935	MS.33U44	· .	2.15	PRSC_con, HT29, CALU6
335049			CH22_FGENES.481_5	2.15	NCI-H69, NCI-H345, PRSC_log
	AA429772	Hs.191610	ESTs	2.15	MB-MDA-453, MB-MDA-435s, MCF7
330363			CH.X_p2 gi[3126882	2.15	NCI-H23, NCI-H460, NCI-358
322896	AW470296	Hs.144830	ESTs	2.15	HT29, CALU6, EB
321981	AA948204	Hs.127361	ESTs	2.15	MB-MDA-231, DU145, HT29
333294			CH22_FGENES.130_6	2.14	EB, DU145, MB-MDA-453
330170			CH.02_p2 gij6648220	2.14	HT29, MB-MDA-453, PC3
	Al123346	He 125241		2.14	
	A1627352				LnCap, DU145, EB
				2.14	NCI-H520, NCI-H23, LnCap
	T10019	Hs.4194	ESTs	2.14	NCI-H460, NCI-H23, NCI-358
	AW183524			2.14	HT29, BT474, MB-MDA-435s
323644	AA310711	Hs.124340	ESTs	2.14	RPWE-2, PRSC_con, PRSC_log
308092	Al474896		EST singleton (not in UniGene) with exon	2.14	BT474, MCF7, MB-MDA-231
322265	AF086244		EST cluster (not in UniGene)	2.14	NCI-H345, RPWE-2, PRSC_con
303521	AA746272		EST cluster (not in UniGene) with exon h	2.14	DU145, MB-MDA-453, EB
312102	AW439340	Hs.189720		2.14	NCI-H23, NCI-H460, MB-MDA-435s
	Al249468			2.14	NCI-H460, NCI-358, NCI-H23
338486			CH22_EM:AC005500.GENSCAN.382-8	2,14	NCI-H520, NCI-H23, NCI-H69
	AI825444	He 210056		2.14	BT474, HT29, MB-MDA-231
	Al650372			2.14	
		ns.1909/9			CALU6, CALU6, Caco2
	AA732301		EST cluster (not in UniGene)	2.14	NCI-H23, NCI-H520, NCI-358
326559	4.505004	11- 00/000	CH.19_hs gl 5867310	2.14	DU145, NCI-H460, NCI-H23
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.13	OVCA-R, DU145, EB
	Al811303	Hs.143490		2.13	MB-MDA-453, MCF7, MB-MDA-435s
333895			CH22_FGENES.293_2	2.13	CALU6, LnCap, DU145
308264	Al567114	Hs.171454	EST	2.13	DU145, CALU6, MB-MDA-453
306081	AA908472		EST singleton (not in UniGene) with exon	2.13	HT29, BT474, MB-MDA-231
333101			CH22_FGENES.79_6	2.13	NCI-H345, NCI-H69, PRSC_tog
328544			CH.07_hs gij5868486	2.13	NCI-H23, NCI-H69, PRSC_log
333355			CH22_FGENES.141_6	2.13	DU145, EB, CALU6
	Al524519	He 220600		2.13	EB, NCI-H460, NCI-H345
	AA814956	1 10.2.03033		2.13	NCI-H520, NCI-H460, NCI-358
	MAG 14530		EST singleton (not in UniGene) with exon		
327809	T4044F		CH.05_hs gi[5867968	2.13	HT29, PC3, OVCA-R
	T10115	Hs.92423		2.13	HT29, NCI-358, MB-MDA-231
	Al971935			2.13	PRSC_con, DU145, DU145
	AA029526			2.12	OVCA-R, A549, MB-MDA-435s
323704	AA319421	Hs.193577	ESTs	2.12	Caco2, LnCap, OVCA-R
328971			CH.08_hs gij6478806	2.12	NCI-358, NCI-H23, NCI-H520
325338			CH.11_hs gij5866883	2.12	LnCap, NCI-H69, NCI-H345
	AA282554	Hs 89034	ESTs	2.12	NCI-H520, NCI-H23, Caco2
327159			CH.01_hs qij5867550	2.12	EB, DU145, PC3
335180		•	CH22_FGENES.505_2	2.12	LnCap, NCI-H69, A549
338062					PRSC_con, PRSC_log, NCI-H69
	AICOCO40	Un 495500	CH22_EM:AC005500.GENSCAN.162-3	2.12	
	MIDSDII IN	Hs.135538		2.12	EB, HT29, DU145
		11- 400-00			
328314	AW293140	Hs.108790		2.11	Cacc2, NCI-H23, A549
	AW293140		CH.07_hs gi 5868371	2.11	HT29, NCI-H23, NCI-H460
315869			CH.07_hs gi 5868371	2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7
315869 339246	AW293140		CH.07_hs gi 5868371	2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474
315869 339246 329921	AW293140 AI033547		CH.07_hs gi 5868371 ESTs	2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29
315869 339246 329921	AW293140		CH.07_hs glj5868371 ESTs CH22_BA354I12_GENSCAN.5-9	2.11 2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520
315869 339246 329921 324981	AW293140 AI033547	Hs.132826 Hs.4947	CH.07_hs gl 5868371 ESTs CH22_BA354112.GENSCAN.5-9 CH.16_p2 gl 6165205 ESTs	2.11 2.11 2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29
315869 339246 329921 324981 331291	AW293140 Al033547 Z25333 AA159323	Hs.132826 Hs.4947 Hs.109929	CH.07_hs gij5868371 ESTs CH22_BA354112.GENSCAN.5-9 CH.16_p2 gij6165205 ESTs ESTs	2.11 2.11 2.11 2.11 2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520
315869 339246 329921 324981 331291 332729	AW293140 Al033547 Z25333 AA159323	Hs.132826 Hs.4947 Hs.109929	CH.07_hs gij5868371 ESTs CH22_BA354I12_GENSCAN.5-9 CH.16_p2 gij6165205 ESTs ESTs fatty acid synthase	2.11 2.11 2.11 2.11 2.11 2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520 NCI-H345, A549, PRSC_con NCI-H345, LnCap, MB-MDA-453
315869 339246 329921 324981 331291 332729 325448	AW293140 Al033547 Z25333 AA159323 AA058907	Hs.132826 Hs.4947 Hs.109929 Hs.83190	CH.07_hs gij5868371 ESTs CH22_BA354I12.GENSCAN.5-9 CH.16_p2 gij6165205 ESTs ESTs Ests fatty acid synthase CH.12_hs gij5866941	2.11 2.11 2.11 2.11 2.11 2.11 2.11 2.11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520 NCI-H345, A549, PRSC_con NCI-H356, LnCap, MB-MDA-453 DU145, MCF7, CALU6
315869 339246 329921 324981 331291 332729 325448 314929	AW293140 Al033547 Z25333 AA159323 AA058907 AW188286	Hs.132826 Hs.4947 Hs.109929 Hs.83190 Hs.143612	CH.07_hs gij5868371 ESTs CH22_BA354I12.GENSCAN.5-9 CH.16_p2 gij6165205 ESTs ESTs fatty acid synthase CH.12_hs gij5866941 ESTs	211 211 211 211 211 211 211 211 211	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520 NCI-H345, A549, PRSC_con NCI-S58, LnCap, MB-MDA-453 DU145, MCF7, CALU6 EB, BT474, MB-MDA-231
315869 339246 329921 324981 331291 332729 325448 314929 301063	AW293140 Al033547 Z25333 AA159323 AA058907 AW188286 Al057634	Hs.132826 Hs.4947 Hs.109929 Hs.83190 Hs.143612 Hs.124596	CH.07_hs gij5868371 ESTs CH22_BA354I12.GENSCAN.5-9 CH.16_p2 gij6165205 ESTs ESTs faity acid synthase CH.12_hs gij5866941 ESTs ESTs	2:11 2:11 2:11 2:11 2:11 2:11 2:11 2:11	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520 NCI-H345, A549, PRSC_con NCI-H345, LTCAP, MB-MDA-453 DU145, MCF7, CALU6 EB, BT474, MB-MDA-231 NCI-H23, NCI-H460, BT474
315869 339246 329921 324981 331291 332729 325448 314929 301063	AW293140 Al033547 Z25333 AA159323 AA058907 AW188286 Al057634	Hs.132826 Hs.4947 Hs.109929 Hs.83190 Hs.143612 Hs.124596	CH.07_hs gij5868371 ESTs CH22_BA354I12.GENSCAN.5-9 CH.16_p2 gij6165205 ESTs ESTs fatty acid synthase CH.12_hs gij5866941 ESTs	211 211 211 211 211 211 211 211 211	HT29, NCI-H23, NCI-H460 BT474, CALU6, MCF7 CALU6, CALU6, BT474 BT474, MB-MDA-231, HT29 A549, NCI-H460, NCI-H520 NCI-H345, A549, PRSC_con NCI-S58, LnCap, MB-MDA-453 DU145, MCF7, CALU6 EB, BT474, MB-MDA-231

	AI823453			2.1	OVCA-R, DU145, EB
			KIAA0407 protein	2.1	OVCA-R, Caco2, HT29
312181	AA417281	Hs.191595	ESTs	2.1	OVCA-R, A549, DU145
334254			CH22_FGENES.366_4	2.1	LnCap, OVCA-R, DU145
318073	AW167087	Hs.131562	ESTs	2.1	A549, CALU6, EB
	AA569881			2.1	NCI-H23, NCI-H520, NCI-H460
332359	W87704	Hs.211558	ESTs	2.1	MB-MDA-435s, PRSC_con, NCI-H460
			EST; Weakly similar to N-copine [H.sapie	2.1	NCI-H345, MB-MDA-231, PRSC_con
308226	A1559106	Hs 181165	eukaryotic translation elongation factor	2.1	EB, CALU6, OVCA-R
324270	AA501/412	He 101688	ESTs; Weakly similar to Pro-Pol-dUTPase	2.09	OVCA-R, LnCap, PC3
337203	77001712	113.13.1000	CH22_FGENES.591-3	2.09	NCI-H69, NCI-H345, MB-MDA-231
	A A 227640	Un 40000	HMG-box containing protein 1		
				2.09	HT29, BT474, MB-MDA-231
	AA420004	ns. 190 100	glyceraldehyde-3-phosphate dehydrogenase		NCI-H23, CALU6, NCI-H520
325977			CH.16_hs gl[6249602	2.09	NCI-H23, NCI-H520, HT29
	AA554758		EST singleton (not in UniGene) with exon	2.09	MB-MDA-435s, NCI-H23, BT474
	Al301528			2.09	Caco2, EB, NCI-358
_	AI860360	Hs.160316		2.08	PRSC_con, PRSC_log, NCI-H345
327341			CH.01_hs gl[6017016	2.08	MB-MDA-231, PRSC_con, NCI-H69
327431			CH.02_hs gi 5867754	2.08	NCI-H23, NCI-358, NCI-H520
	AI870811	Hs.158709	ESTs; Weakly similar to KIAA0938 protein	2.08	MB-MDA-453, MCF7, OVCA-R
328624			CH.07_hs gi[5868246	2.08	MCF7, NCI-358, RPWE-2
303596	AW303377		EST cluster (not in UniGene) with exon h	2.08	RPWE-2, PRSC_con, PRSC_log
336717			CH22_FGENES.81-1	2.08	BT474, HT29, MCF7
317370	AW204139	Hs.174424	ESTs; Weakly similar to p140mDia [M.musc	2.08	NCI-H23, NCI-H460, NCI-H69
	AA149061			2.08	OVCA-R, EB, NCI-H345
	N62228		EST singleton (not in UniGene) with exon	2.08	BT474, MCF7, MB-MDA-231
	AW137420	He 102311		2.08	PRSC_con, PRSC_log, PRSC_log
325636	ATT 101 720	110.102011	CH.14_hs gij5867002	2.08	NCI-358, NCI-H460, MB-MDA-453
336406					<u></u>
	FOCESO		CH22_FGENES.823_21	2.08	HT29, EB, DU145
	F06529	11- 004004	EST cluster (not in UniGene) with exon h	2.08	LnCap, PRSC_log, PRSC_con
	R45159	Hs.221804		2.08	PRSC_con, LnCap, RPWE-2
	R21114	Hs.21383		2.08	NCI-H23, NCI-H520, NCI-H460
334115			CH22_FGENES.330_15	2.08	BT474, NCI-H69, HT29
	Al473682		EST singleton (not in UniGene) with exon	2.08	MB-MDA-435s, NCI-H345, MB-MDA-231
308282	AI569456		EST singleton (not in UniGene) with exon	2.08	LnCap, EB, PRSC_con
313038	AW451618	Hs.124195	ESTs	2.07	NCI-H345, PRSC_con, LnCap
317974	AW444468	Hs.144900	ESTs	2.07	NCI-358, NCI-H23, NCI-H520
324063	AW292740	Hs.254815	ESTs	2.07	Ca∞2, NCI-358, NCI-H520
334759			CH22_FGENES.428_8	2.07	CALU6, HT29, NCI-H520
307864	Al367417		EST singleton (not in UniGene) with exon	2.07	NCI-H460, NCI-358, NCI-H23
		Hs.195188	glyceraldehyde-3-phosphate dehydrogenase	2.07	HT29, MCF7, MB-MDA-435s
	AW470753		EST singleton (not in UniGene) with exon	2.07	NCI+1345, PRSC_con, RPWE-2
	AA421160	Hs 9456	SWI/SNF related; matrix assocd; actin de	2.07	EB, A549, PC3
	AI824495	Hs.211038		2.06	PRSC_con, RPWE-2, Caco2
	AA430709	110.211000	EST duster (not in UniGene) with exon h	2.06	RPWE-2, NCI-H345, PRSC_con
333403	701100100		CH22_FGENES.144_21	2.06	OVCA-R, CALU6, PC3
	Al953261	Hs.169813		2.06	NCI-H345, OVCA-R, NCI-H23
	A1900201	NS. 1030 13			
338594			CH22_EM:AC005500.GENSCAN.435-4	2.06	DU145, LnCap, EB
334676	41400000	040050	CH22_FGENES.418_29	2.06	NCI-H69, PRSC_log, PRSC_con
	AI198032	Hs.210356		2.06	MB-MDA-435s, NCI-H23, Caco2
	AI949216		EST singleton (not in UniGene) with exon	2.06	CALU6, EB, NCI-358
329752			CH.14_p2 glj6065777	2.06	CALU6, HT29, DU145
	T10001	Hs.4188	ESTs	2.06	EB, OVCA-R, MB-MDA-435s
	AA521016			2.06	OVCA-R, MB-MDA-453, MCF7
	AA382871	Hs.132794	phosphate cytidylyltransferase 1; cholin	2.06	LnCap, EB, NCI-H69
326344			CH.17_hs gij6525295	2.06	HT29, BT474, MB-MDA-453
330855	AA079318		zm98c2.s1 Stratagene coton HT29 (#937221		
			IMAGE:545954 3', mRNA seq	2.06	RPWE-2, LnCap, PRSC_con
302525			G protein-coupled receptor 43	2.05	NCI-358, NCI-H23, DU145
331903	AF024690	Hs.248056			
	AF024690 AA436673		H sapiens mRNA; cDNA DKFZp586B0323 (fm		2.05 Caco2, DU145, A549
316322	AA436673	Hs.29417		o m	2.05 Caco2, DU145, A549
	AA436673 AW296618	Hs.29417	ESTS	om 2.05	2.05 Cacco2, DU145, A549 BT474, MB-MDA-453, OVCA-R
321525	AA436673 AW296618 H78875	Hs.29417	ESTs EST cluster (not in UniGene)	om 2.05 2.05	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520
321525 305071	AA436673 AW296618	Hs.29417	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon	om 2.05 2.05 2.05	2.05 Cacc2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29
321525 305071 326033	AA436673 AW296618 H78875	Hs.29417	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gi 5867178	om 2.05 2.05 2.05 2.05	2.05 Cacc2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474
321525 305071 326033 334730	AA436673 AW296618 H78875 AA640579	Hs.29417	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gij5867178 CH22_FGENES.424_5	om 2.05 2.05 2.05 2.05 2.05 2.05	2.05 Cacc2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R
321525 305071 326033 334730 305335	AA436673 AW296618 H78875 AA640579 AA704235	Hs.29417 Hs.120637	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gl 5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453
321525 305071 326033 334730 305335 320521	AA436673 AW296618 H78875 AA640579	Hs.29417	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gl 5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	2.05 Cacc2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3
321525 305071 326033 334730 305335 320521 333515	AA436673 AW296618 H78875 AA640579 AA704235 N31464	Hs.29417 Hs.120637 Hs.24743	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gl 5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con
321525 305071 326033 334730 305335 320521 333515 311020	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672	Hs.29417 Hs.120637	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs glj5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	2.05 Cacc2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H460, NCI-H23, NCI-H520
321525 305071 326033 334730 305335 320521 333515 311020 324323	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739	Hs.29417 Hs.120637 Hs.24743	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs glj5857178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs EST cluster (not in UniGene)	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H346, NCI-H23, NCI-H520 OVCA-R, PC3, LnCap
321525 305071 326033 334730 305335 320521 333515 311020 324323 305486	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739 AA748889	Hs.29417 Hs.120637 Hs.24743	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gij5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs EST cluster (not in UniGene) EST singleton (not in UniGene)	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.04 2.04 2.04	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H460, NCI-H23, NCI-H520 OVCA-R, PC3, LnCap NCI-H345, PRSC_log, CALU6
321525 305071 326033 334730 305335 320521 333515 311020 324323 305486 312162	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739 AA748889 T91823	Hs.29417 Hs.120637 Hs.24743 Hs.213783	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gij5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 EST cluster (not in UniGene)	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04	2.05 Cacc2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H460, NCI-H23, NCI-H520 OVCA-R, PC3, LICAp NCI-H345, PRSC_bog, CALU6 NCI-H320, NCI-H23, NCI-358
321525 305071 326033 334730 305335 320521 333515 311020 324323 305486 312162 330980	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739 AA748889 T91823 H28794	Hs.29417 Hs.120637 Hs.24743 Hs.213783	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gij5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) EST singleton (not in UniGene) EST cluster (not in UniGene) EST cluster (not in UniGene)	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.04	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H460, NCI-H23, NCI-H520 OVCA-R, PC3, LnCap NCI-H345, PRSC_bog, CALU6 NCI-H320, NCI-H23, NCI-358 MCF7, MB-MDA-453, MB-MDA-435s
321525 305071 326033 334730 305335 320521 333515 311020 324323 305486 312162 330980 317463	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739 AA74889 T91823 H28794 AA927290	Hs.29417 Hs.120637 Hs.24743 Hs.213783 Hs.6659 Hs.130462	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gl 5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs CH22_FGENES.172_5 EST cluster (not in UniGene) EST singleton (not in UniGene) EST cluster (not in UniGene) EST cluster (not in UniGene) EST cluster (not in UniGene) EST STS	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H345, PC3, LnCap NCI-H345, PRSC_log, CALU6 NCI-H520, NCI-H520, NCI-H520 NCI-H520, NCI-H520, NCI-H580 MCF7, MB-MDA-453, MB-MDA-435s NCI-H23, Caco2, NCI-H69
321525 305071 326033 334730 305335 320521 333515 311020 324323 305486 312162 330980 317463 303460	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739 AA748889 T91823 H28794	Hs.29417 Hs.120637 Hs.24743 Hs.213783 Hs.6659 Hs.130462	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gl 5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs CH22_FGENES.172_5 EST cluster (not in UniGene) EST singleton (not in UniGene) EST cluster (not in UniGene) EST cluster (not in UniGene) EST singleton (not in UniGene) EST ESTS ESTS	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H460, NCI-H23, NCI-H520 OVCA-R, PC3, LinCap NCI-H345, PRSC_bog, CALU6 NCI-H520, NCI-H23, NCI-358 MCF7, MB-MDA-453, MB-MIDA-435s NCI-H23, Caco2, NCI-H69 DU145, EB, CALU6
321525 305071 326033 334730 305335 320521 333515 311020 324323 305486 312162 330980 317463	AA436673 AW296618 H78875 AA640579 AA704235 N31464 AI918672 AA393739 AA74889 T91823 H28794 AA927290	Hs.29417 Hs.120637 Hs.24743 Hs.213783 Hs.6659 Hs.130462	ESTs EST cluster (not in UniGene) EST singleton (not in UniGene) with exon CH.17_hs gl 5867178 CH22_FGENES.424_5 EST singleton (not in UniGene) with exon ESTs CH22_FGENES.172_5 ESTs CH22_FGENES.172_5 EST cluster (not in UniGene) EST singleton (not in UniGene) EST cluster (not in UniGene) EST cluster (not in UniGene) EST cluster (not in UniGene) EST STS	om 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	2.05 Caco2, DU145, A549 BT474, MB-MDA-453, OVCA-R NCI-H23, PRSC_con, NCI-H520 MB-MDA-231, BT474, HT29 HT29, DU145, BT474 BT474, EB, OVCA-R MCF7, OVCA-R, MB-MDA-453 MB-MDA-453, MB-MDA-231, PC3 NCI-H345, RPWE-2, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H345, PC3, LnCap NCI-H345, PRSC_log, CALU6 NCI-H520, NCI-H520, CALU6 NCI-H520, NCI-H520, NCI-358 MCF7, MB-MDA-453, MB-MDA-435s NCI-H23, Caco2, NCI-H69

305464	AA742425		EST singleton (not in UniGene) with exon	2.03	CALU8, NCI-H520, NCI-358
	Al383496		EST singleton (not in UniGene) with exon	2.03	NCI-H23, BT474, MB-MDA-231
	H89360		EST cluster (not in UniGene)	2.03	DU145, OVCA-R, MB-MDA-453
	AW205198	Hs.149146		2.03	NCI-H23, NCI-H460, NCI-358
325886	***************************************	1.0	CH.16_hs gl 5867087	2.03	NCI-H345, NCI-H345, RPWE-2
329719		•	CH.14_p2 gl[6065785	2.03	NCI-H69, RPWE-2, PRSC_con
	Al972768		EST singleton (not in UniGene) with exon	2.03	LnCap, PRSC_con, RPWE-2
328277			CH.07_hs gij6004471	2.03	LnCap, RPWE-2, A549
	AI205705	Hs.147222		2.03	NCI-H460, NCI-358, NCI-H23
327203			CH.01_hs gij5867447	2.03	HT29, BT474, MB-MDA-231
	AI086683		EST singleton (not in UniGene) with exon	2.03	BT474, NCI-H345, HT29
333339			CH22_FGENES.139_8	2.03	HT29, DU145, CALU6
	AI921875		EST cluster (not in UniGene)	2.03	BT474, BT474, MB-MDA-231
304811	AA584361		EST singleton (not in UniGene) with exon	2.03	NCI-H23, NCI-358, NCI-H460
	AL135125	Hs.13913	ESTs	2.02	DU145, EB, A549
	AA828713		EST cluster (not in UniGene)	2.02	NCI-H345, PRSC_con, PRSC_log
	Al381019		EST singleton (not in UniGene) with exon	2.02	HT29, MCF7, MB-MDA-453
	AA608983		af5d4.s1 Soares_testis_NHT H saplens cDN		PRSC_con, NCI-H345, RPWE-2
	AI684571	Hs.175831		2.02	NCI-H460, Caco2, NCI-358
335721			CH22_FGENES.599_24	2.02	NCI-H69, PRSC_log, NCI-H345
	AI692643	Hs.172749		2.02	HT29, Caco2, MB-MDA-231
325396			CH.12_hs gi[5866921	2.01	HT29, NCI-H520, NCI-H460
328770			CH.07_hs gi 6017031	2.01	NCI-H23, NCI-H460, NCI-358
335585			CH22_FGENES.581_24	2.01	MB-MDA-453, DU145, MCF7
335634			CH22 FGENES.584 14	2.01	NCI-H23, NCI-H460, NCI-H69
338271			CH22 EM:AC005500.GENSCAN.287-1	2.01	MCF7, DU145, PC3
328607			CH.07_hs gij5868233	2.01	NCI-H460, NCI-H23, NCI-358
307050	AI147341	Hs.146734		2.01	NCI-H520, NCI-H23, NCI-358
334946			CH22_FGENES.465_13	2.01	CALU6, BT474, DU145
319793	R56360		EST duster (not in UniGene)	2.01	NCI-H460, HT29, NCI-358
307223	AI193698	Hs.184776	ribosomal protein L23a	2.01	NCI-358, NCI-H520, NCI-H23
312627	AA344698	Hs.133169		2.01	PC3, LnCap, MB-MDA-231
329221			CH.X_hs gl 5868727	2.01	NCI-H345, NCI-H69, NCI-358
305145	AA653589		EST singleton (not in UniGene) with exon	2.01	LnCap, EB, OVCA-R
328428			CH.07_hs gij5868417	2.01	NCI-H69, MB-MDA-453, BT474
305990	AA888866	Hs.125919		2.01	NCI-H520, NCI-358, NCI-H23
319368	R00003	Hs.133171	ESTs	2	OVCA-R, LnCap, PC3
324805	AA927002			2	NCI-H460, NCI-H23, NCI-358
301138	AA719179	Hs.189419	ESTs	2	NCI-H69, NCI-H23, PRSC_con
304675	AA541740		EST singleton (not in UniGene) with exon	2 2 2 2	NCI-H460, NCI-H520, MB-MDA-231
326194	٠.		CH.17_hs gi 5867213	2	HT29, NCI-358, BT474
			- -		

Table 5: H chip - B survivor vs Met query - up in Mets

Pkey: Unique Eos probeset identifier number

ExAcon: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete_Title	Ratio Met/B surv.
	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	5.56
128530	AA504343	Hs.183475	Homo sapiens clone 25061 mRNA sequence	4.62
129093	AA262710	Hs.108614	KIAA0627 protein	4.23
124690	R05818	Hs.173830	ESTs	3.96
115558	AA393806	Hs.1010	regulator of mitotic spindle assembly 1	3.39
134261	AA227678	Hs.8084	Humn DNA sequence from clone 465N24 on	c3.22
104792	AA029288	Hs.29147	ESTs; Highly similar to ZINC FINGER PROT	3.17
133770	M69197	Hs.242279	haptoglobin-related protein	3.07

Table 6: H chip – B survivor vs Met query – down in Mets

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete_Title	Ratio Met/B surv.
	D00654	Hs.77443	actin; gamma 2; smooth muscle; enteric	0.07
	S75256		HNL=neutrophil lipocalin [human, ovarlan	0.2
	M87789	Hs.140	Immunoglobulin gamma 3 (Gm marker)	0.2
130064	T67053	Hs.181125	immunoglobuiln lambda gene cluster	0.2

Table 7: I chip – B survivor vs Met query – up in Mets

Pkey: Unique Eos probeset identifier number
ExAccn: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex_Accn	UniG_ID	Title	Ratio Met/B surv
319379	T91443	Hs.193963	ESTs	19.65
321920	N63915			11.9
	AA543008		ESTs; Weakly similar to IIII ALU SUBFAMI	9.31
	Al732331		ESTs; Moderately similar to IIII ALU CLA	5.79
331433		Hs.161023		4.79
324643	Al436356	Hs.130729	ESTs	4.59
332471	AA416967	Hs.120980	nuclear receptor co-repressor 2	4.58
314915	AA573072	Hs.187748	ESTs; Weakly similar to !!!! ALU SUBFAM!	4.3
321354	AA078493		EST cluster (not in UniGene)	4.26
322309	AF086372		EST cluster (not in UniGene)	3.89
325100	T10265	Hs.116122	ESTs; Weakly similar to coded for by C.	3.81
314071	AA192455	Hs.188690	ESTs	3.74
315178	AW362945	Hs.162459	ESTs	3.66
330987	H40988	Hs.131965	ESTs; Weakly similar to !!!! ALU SUBFAMI	3.51
337898			CH22_EM:AC005500.GENSCAN.56-5	3.21
319403	T98413		EST cluster (not in UniGene)	3.2
331469	N22273	Hs.39140	ESTs	3.15
331549	N56866	Hs.237507	EST	3.14
331644	T99544	Hs.173734	ESTs; Weakly similar to !!!! ALU CLASS B	3.14
313220	AI971981	Hs.118241	ESTs	3.04

Table 8: I chip - B survivor vs Met query - down in Mets

Pkey: Unique Eos probeset identifier number
ExAcen: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex_Accn	UniG_ID	Title	Ratio Met/B surv
333658			CH22_FGENES.241_4	0.06
333657			CH22_FGENES.241_2	0.07
333654			CH22_FGENES.240_2	0.07
332859			CH22_FGENES.27_2	0.07
333656			CH22_FGENES.240_4	0.07
304480	AA430373		EST singleton (not in UniGene) with exon	0.08
333737			CH22_FGENES.261_1	0.09
308601	AI719930		EST singleton (not in UniGene) with exon	0.1
334030			CH22_FGENES.320_2	0.1
333637			CH22_FGENES.229_2	0.13
302347	AF039400	Hs.194659	chloride channel; calcium activated; fam	0.16
333653			CH22_FGENES.239_2	0.16
333635			CH22_FGENES.228_2	0.19
333647			CH22_FGENES.235_2	0.19
	Al285535		EST singleton (not in UniGene) with exon	0.2
337954			CH22_EM:AC005500.GENSCAN.96-3	0.2
333588			CH22_FGENES.206_2	0.21
	AA296922	Hs.129778	9	0.22
333642			CH22_FGENES.231_2	0.23
337951			CH22_EM:AC005500.GENSCAN.94-1	0.23
333730			CH22_FGENES.258_1	0.23
333646			CH22_FGENES.234_2	0.24

Table 9: H chip - B survivor vs Met query - up in Mets

Pkey: Unique Eos probeset identifier number
ExAcen: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Accn	UniGID	Complete_Title	Median Mets Al v	rs Median B-Sur Al
100655	HG2841-H1	Γ2970	Albumin, Alt. Spilce 5	11.98	
124875	R70506	Hs.207693	ESTs; Weakly similar to !!!! ALU SUBFAMI	9.21	
102193	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	6.73	
100654	HG2841-H7	T2969	Albumin, Alt. Splice 3, Missplicing In Alloalbun	nin Venezia	6.18
	N79496	Hs.50824	EST	5.93	
128046	AA873285		ESTs	5.9	
128896	D14446	Hs.107	fibrinogen-like 1	5.17	
127917	AA211895	Hs.118831	EST; Highly similar to dJ1163J1.2.1 [H.s	5.11	
125090	T91518		ye20f05.s1 Stratagene lung (#937210) Hom	4.47	
118579	N68905		small inducible cytokine A5 (RANTES)	4.23	
123526	AA608657		ESTs; Moderately similar to IIII ALU SUB	4.21	
128062	AA379500	Hs.193155	ESTs	4.14	
119174	R71234		yi54c08.s1 Soares placenta Nb2HP Homo sa	4.11	
128530	AA504343	Hs.183475	Homo sapiens clone 25061 mRNA sequence	4.09	
119404	T92950		ye27c10.s1 Stratagene lung (#937210) Hom	3.98	
118475	N66845	Hs.165411	ESTs; Weakly similar to IIII ALU CLASS B	3.96	
	K00629		Human kpnl repeat mma (cdna clone pcd-k	3.87	
108888	AA135606	Hs.189384	ESTs; Weakly similar to IIII ALU SUBFAMI	3.85	
	C13961	Hs.210115		3.8	
123523	AA608588	Hs.193634	ESTs	3.76	
	AA984074			3.75	
_	H09570		ESTs; Weakly similar to neuronal thread	3.67	
	R05818	Hs.173830		3.58	
	AA227678		Human DNA sequence from clone 465N24 on		3.57
	AA176225			3.52	
	H27267		hydroxyacył-Coenzyme A dehydrogenase/3-k		
	AA856990			3.42	
	AA255991			3.4	
	H39216	MS.2399/U	ESTs; Weakly similar to ZNF91L [H.sapien	3.38	2.20
	AA480909	11- 5704	aa28f10.s1 NCI_CGAP_GCB1 Homo sapiens		3.38
	AA424791		KIAA0679 protein	3.38	
	W67257		ESTs; Wealdy similar to !!!! ALU CLASS B	3.36	
	AA132061		ESTs; Weakly similar to ubiquitous TPR m	3.3	
	J04813		cytochrome P450; subfamily IIIA (niphedi	3.27	
	AA598981			3.25	
			nuclear pore complex interacting protein	3.24 3.24	
	R06273		ESTs; Moderately similar to IIII ALU SUB	3.21	
	M69197		EST; Weakly similar to IIII ALU SUBFAMIL	3.17	
	M09197 Al242720		haptoglobin-related protein ESTs; Weakly similar to alternatively sp	3.14	
	AA235803		cathepsin D (lysosomal asparty) protease	3.12	
	R02443		ESTs; Moderately similar to !!!! ALU SUB	3.08	
	F10904	Hg 100407	Homo sapiens clone 23605 mRNA sequence		
	R82063	Hs.101594		3.06	
	AA610677			3.04	
	H44061	Hs.194026		3.01	

Table 10: H chip - B survivor vs Met query - Down in Mets

Pkey: Unique Eos probeset identifier number
ExAccn: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete_Title	Ratio Met/B surv.
100116	D00654	Hs.77443	actin; gamma 2; smooth muscle; enteric	0.09
130064	T67053	Hs.181125	immunoglobulin lambda gene cluster	0.11
129982	M87789	Hs.140	immunoglobulin gamma 3 (Gm marker)	0.12
131219	C00476	Hs.24395	small inducible cytokine subfamily B (Cy	0.13
133806	M12759	Hs.76325	Human Ig J chain gene	0.17
132982	L02326	Hs.198118	immunoglobulin tambda-like polypeptide 2	0.18
131713	X57809	Hs.181125	immunoglobulin lambda gene cluster	0.18
131791	S71043	Hs.32225	immunoglobulin alpha 1	0.2
133725	V00563	Hs.179543	immunoglobulin mu	0.22
101923	S75256		HNL=neutrophil lipocalin [human, ovarian	0.23
101461	M22430	Hs.76422	phospholipase A2; group IIA (platelets;	0.24
103448	X99133	Hs.204238		0.24

Table 11: H chip - Met vs Normal query - up in Mets

Pkey: Unique Eos probeset identifier number

ExAcen: Exemplar Accession number, Genbank accession number
UnigenelD: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Acen	UniG_ID	Complete_Title	Median Mets Al vs Median Normal Al
100655	HG2841-H	T2970	Albumin, Alt. Splice 5	15.91
102193	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	6.83
	R70506	Hs.207693	ESTs; Weakly similar to IIII ALU SUBFAMI	6.68
	HG2841-H		Albumin, Alt. Splice 3, Missplicing In Alloalbun	
	F13673	Hs.99769	ESTs	5.11
	D14446 X70683	Hs.107 Hs.83484	fibrinogen-like 1	5.05
	AA491465		SRY (sex determining region Y)-box 4 ESTs	4.82 4.78
			EST; Highly similar to dJ1163J1.2.1 [H.s	4.76
115096	AA255991	Hs.175319	ESTs	4.67
	R56678		Human DNA sequence from clone 967N21 on	
	AA608657		ESTs; Moderately similar to IIII ALU SUB	4.61
	T91518		ye20105.s1 Stratagene lung (#937210) Hom	4.59
	M77349		transforming growth factor; beta-induced	4.58
	N79496 AA873285	Hs.50824 He 137047		4.56 4.45
	AA436560		claudin 1	4.09
	J05257	Hs.109	dipeptidase 1 (renal)	4.04
128062	AA379500			4.03
	R06273	Hs.186467	ESTs; Moderately similar to IIII ALU SUB	4.01
	N66845		ESTs; Weakly similar to IIII ALU CLASS B	3.96
	AA024482		DKFZP434G032 protein	3.83
118579	AA088458	HS.19322	ESTS	3.74
	AA620390	He 247444	small inducible cytokine A5 (RANTES)	3.7 3.62
				3.61
	AA422123			3.55
129349	D86974	Hs.110613		3.54
119329				3.53
	AA084148	Hs.110659		3.52
123143	AA487595	Ha 2077		3.48
119404		Hs.2877		3.48 3.47
123963		Hs.210115		3.47
116480				3.4
108836	AA132061			3.39
				3.38
133770		Hs.242279		3.38
132358		HS.46423		3.37
127759	Al369384	He 102622		3.37 3.37
	AI061213			3.36
	AA169866			3.36
128954		Hs.209100		3.34
119174			yi54c08.s1 Soares placenta Nb2HP Homo sa	
				3.32
	AA984074 AA856990			3.3 3.35
124620				3.25 3.24
135427	141 400 1	113.104032	· · · · · · · · · · · · · · · · · · ·	3.23
129967	H99653	Hs.138618		3.22
125191		Hs.138871		3.2
124684		Hs.221078		3.2
	AA856953			3.17
119423		ms.1/3734		3.16 -D 3.15
123022 103654	AA480909 770759		aa28f10.s1 NCL_CGAP_GCB1 Homo sapiens H.sapiens mitochondrial 16S rRNA gene (p	cD 3.15 3.13
	Al242720	Hs.146042		3.12
124690		Hs.173830		3.1
129791	F02778	Hs.173887	KIAA0876 protein	3.07
114472	AA028924			3.07
115429	AA284139	Hs.89295	EST	3.06
130020	AA433930			3.08
126050	TIZ1 201	Hs.75860	hydroxyacyl-Coenzyme A dehydrogenase/3-k	3.03

129906	H39216	Hs.239970	ESTs: Wealty similar to ZNF91L [H.sapten	3.04
123422	AA598484	Hs.238476	EST	3.03
103059	X57351	Hs.174195	Interferon induced transmembrane protein	3.02
124253	H69742	Hs.102201	ESTs	3.02
123523	AA608588	Hs.193634	ESTs	3.02
132669	AA188378	Hs.54602	ESTs; Weakly similar to 60S RIBOSOMAL PF	₹3.02
123196	AA489250	Hs.59403	serine palmitoyitransferase; subunit II	3.01
122948	AA477483		zu44h2.s1 Soares ovary tumor NbHOT Homo	3.01
119053	R11501		yf28f1.s1 Soares fetal liver spleen 1NFL	3.01
125953	H40829		yo05d11.r1 Soares adult brain N2b5HB55Y	3
119155	R61715	Hs.138237	ESTs	3

Table 12: H chip – Met vs Normal query – down in Mets

Pkey: Unique Eos probeset identifier number

ExAcca: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete_Title	Median Mets Al vs Median Normal Al
	Y00339		carbonic anhydrase II	0.01
	AF007216		solute carrier family 4; sodium bicarbon	0.02
	AA156064 K01160	Hs.72115		0.04
	H57056	Hs.204831	Accession not listed in Genbank	0.04 0.05
	L76465	Hs.77348		0.05
			ESTs; Weakly similar to secreted cement	0.05
	X73501		H. Sapiens mRNA for cytokeratin 20	0.05
	N79237		ESTs; Weakly similar to long chain fatty	0.06
	U11313		sterol carrier protein 2	0.06
	R37362 AA224351	Hs.21351 Hs.108681		0.06 0.07
	U19495		stromal cell-derived factor 1	0.07
	W15263	Hs.5422	ESTs .	0.07
	H25836	Hs.83429	tumor necrosis factor (ligand) superfami	0.07
100116	D00654	Hs.77443	actin; gamma 2; smooth muscle; enteric	0.07
	AA004415			0.07
			succinate-CoA ligase; GDP-forming; beta	0.08
			Homo sapiens mRNA; cDNA DKFZp564B076	
	AA487557			0.08
	T90037	Hs.16686	transmembrane glycoprotein	0.08 0.08
	U67319	Hs.9216		0.09
	H93575		Homo sapiens mRNA; cDNA DKFZp564J142	
	AA298786			0.09
134749	L10955	Hs.89485	carbonic anhydrase IV	0.09
130366			hydroxysteroid (17-beta) dehydrogenase 2	0.09
	AA195718			0.09
	U14528	Hs.29981	solute carrier family 26 (sulfate transp	0.1
	N73702	Hs.238927		0.1
	D11925 M12759		KIAA0929 protein Msx2 interacting nuclea Human Ig J chain gene	0.1 0.1
	U60115	113.70020	Homo sapiens skeletal muscle LIM-protein	0.1
	AA234929	Hs.44343	ESTs	0.11
	V01512	Hs.25647	v-fos FBJ murine osteosarcoma viral onco	0.11
106569	AA455983	Hs.117816	sordin	0.11
	Z11793	Hs.3314	selenoprotein P; plasma; 1	0.11
	C02386	Hs.107139		0.11
	AA377254			0.11
130867		Hs.2056		0.11 0.12
	N30796 M97496	Hs.17424 Hs.778	guanylate cyclase activator 1B (retina)	0.12
	AA171913			0.12
			DKFZP586A0522 protein	0.12
133435		Hs.7365	ESTs	0.13
132836	F09557	Hs.57929		0.13
	AA628600			0.13
			Homo sapiens mRNA; cDNA DKFZp586G012	
	AA235404		Homo sapiens clone 25186 mRNA sequence	
	W32094 AA421139	Hs.55501	ESTs ECTo	0.14 0.14
	AA461303		DKFZP586D1519 protein	0.14
	AA151676		peptidyl arginine delminase; type II	0.14
	X73079		polymeric immunoglobulin receptor	0.14
131219		Hs.24395	small inducible cytokine subfamily B (Cy	0.15
116459	AA621399		ESTs	0.15
	R77539	Hs.15285	ESTs	0.15
	W68388	Hs.21288	ESTs; Weakly similar to KIAA0704 protein	0.15
	M32886 AA233837	Hs.117816	Sorcin ESTs: Weakly similar to membrane glycopr	0.15 0.15
	D51235	Hs.82689	tumor rejection antigen (gp96) 1	0.15 0.15
	AA454930		ESTs	0.15
100201				

117/127	R66534	No 20402	ECT.	0.45	
		Hs.28403	ESTs	0.15	
	R70914	Hs.8997	heat shock 70kD protein 1	0.15	
130343	AA490262	Hs.15485	ESTs; Weakly similar to APICAL-LIKE PROT	0.16	
105496	AA256323	Hs.25264		0.16	
104037	AA372630	Hs.100347	differentially expressed in hematopoleti	0.16	
	M22430	Hs.76422		0.16	
	D20458	Hs.229071		2 1 2 2	
			- · ·	0.16	
	AA099391		myosin; light polypeptide kinase	0.16	
103653	Z70295	Hs.32966	guanylate cyclase activator 2B (uroguany	0.16	
101070	L02785	Hs.1650	down-regulated in adenoma	0.17	
131501	AA121127		H3 histone; family 3A	0.17	
	X98311	Hs.74466		0.17	
	AA099820		ESTs	0.17	
	L02326	HS.198118	immunoglobulin lambda-like polypeptide 2	0.17	
	C20785	Hs.30514	ESTs	0.17	
134675	AA250745	Hs.87773	protein kinase; cAMP-dependent; catalyti	0.17	
	M82962		meprin A; alpha (PABA peptide hydrolase)	0.18	
130455	X17059	He 155056		0.18	
			N-acetyltransferase 1 (arytamine N-acety	2 1 2 2	
		Hs.31297		0.18	
100749	HG3521-HT	73715	Ras-Related Protein Rap1b	0.18	
116724	F13665	Hs.65641	ESTs	0.18	
129265	X68277	Hs.171695	dual specificity phosphatase 1	0.18	
102347	U37518	Hs.83429		0.18	
		Hs.122576		0.18	
		Hs.112953		0.19	
121780	AA422086	Hs.124660	ESTs	0.19	
115662	AA405715	Hs.64179	hypothetical protein	0.19	
	W42789	Hs.31446	ESTs	0.19	
	AA256268		ESTs	0.19	
		ns. 10203			
	T57112		yc20g11.s1 Stratagene lung (#937210) Hom		
129462	D84239	Hs.111732	IgG Fc binding protein	0.19	
	X86693	Hs.75445	hevin	0.2	
126180	R18070	Hs.3712	ublquinol-cytochrome c reductase; Rieske	0.2	
	HG3115-H1		Golli-Mbp (Gb:L18862)	0.2	
			Immunestatutis tembris sees dustes		
	T67053		Immunoglobulin lambda gene cluster	0.2	
	M12963	Hs.73843	alcohol dehydrogenase 1 (class I); alpha	0.2	
132254	L20826	Hs.430	plastin 1 (I isoform)	0.2	
105646					
	AA282147	Hs.5888	ESIS	0.2	
		Hs.5888 Hs 5897	ESTS Home sanions mRNA: cDNA DKF7n586P162	0.2 2 (f	0.21
132883	AA047151	Hs.5897	Homo sapiens mRNA; cDNA DKFZp586P162	2 (f	0.21
132883 132618	AA047151 AA253330	Hs.5897 Hs.5344	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein comptex 1; gamma	2 (f 0.21	0.21
132883 132618 108931	AA047151 AA253330 AA147186	Hs.5897 Hs.5344 Hs.250746	Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs	2 (f 0.21 0.22	0.21
132883 132618 108931 131421	AA047151 AA253330 AA147186 X64177	Hs.5897 Hs.5344	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein comptex 1; gamma	2 (f 0.21	0.21
132883 132618 108931 131421	AA047151 AA253330 AA147186 X64177	Hs.5897 Hs.5344 Hs.250746	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H	2 (f 0.21 0.22	0.21
132883 132618 108931 131421 107295	AA047151 AA253330 AA147186 X64177 T34527	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp	2 (f 0.21 0.22 0.22 0.22	0.21
132883 132618 108931 131421 107295 103576	AA047151 AA253330 AA147186 X64177 T34527 Z26317	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2	2 (f 0.21 0.22 0.22 0.22 0.22 0.22	0.21
132883 132618 108931 131421 107295 103576 105173	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma EST3 metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 EST3	2 (f 0.21 0.22 0.22 0.22 0.22 0.22	0.21
132883 132618 108931 131421 107295 103576 105173 134843	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallichtionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallichtionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallicitationein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 103997 106609 101300 129717 108565 121314	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164866	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164866 Hs.15250	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164866 Hs.15250	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 132888	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.16466 Hs.15250 Hs.5250 Hs.5920	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 103997 106609 101300 129717 108565 121314 124803 130208 13288 132720	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.168666 Hs.15250 Hs.5541	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 132888 132720 102239	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.164866 Hs.15250 Hs.5520 Hs.5521 Hs.5541 Hs.5541	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetyigtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 13288 13288 13288 132720 102239 115764	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.162538 Hs.164866 Hs.15250 Hs.5920 Hs.5920 Hs.5921 Hs.1376 Hs.91011	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysterold (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom	2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 132888 132720 102239 115764 130558	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.16258 Hs.164866 Hs.15250 Hs.5541 Hs.1376 Hs.15984	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine; polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-eptimerase/N-ac ATPase; Ca++ transporting; ublquitious hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei	2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 13288 132720 102239 115764 130558 122666	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA425052	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.15250 Hs.55541 Hs.15250 Hs.5541 Hs.1764 Hs.	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysterold (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 10390 10390 10390 101300 129717 108565 121314 124803 130208 13288 132720 102239 115764 130558 130558 132686 134495	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H98654 AA455052 D63477	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.16258 Hs.164866 Hs.15250 Hs.5541 Hs.1376 Hs.15984	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine; polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-eptmerase/N-ac ATPase; Ca++ transporting; ublquitious hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei	2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 10390 10390 10390 101300 129717 108565 121314 124803 130208 13288 132720 102239 115764 130558 130558 132686 134495	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H98654 AA455052 D63477	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164666 Hs.15250 Hs.5541 Hs.1376 Hs.1376 Hs.1376 Hs.1376 Hs.199387 Hs.84087	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 103997 106609 101300 129717 108565 121314 124803 132288 132720 102239 115764 130558 122666 134495 124017	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA455052 D63477 F02202	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.1526 Hs.15250 Hs.5541 Hs.5541 Hs.15984 Hs.91011 Hs.15984 Hs.9387 Hs.94087 Hs.94087 Hs.100960	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 13208 1	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA02799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA455055 AA450555 AA490777 F02202 AA491261	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.162538 Hs.164866 Hs.15250 Hs.5520 Hs.5520 Hs.5541 Hs.1376 Hs.91011 Hs.15984 Hs.9387 Hs.84087 Hs.100960 Hs.37558	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIJAA0143 protein ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 132888 132720 102239 115764 130558 122666 134495 124017 106925 115187	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA450552 D63477 F02202 AA491261 AA491805	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.99061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.15250 Hs.15250 Hs.5541 Hs.1546 Hs.15250 Hs.5541 Hs.15984 Hs.99387 Hs.99387 Hs.10960 Hs.37558 Hs.40021	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine; polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-eptmerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208 132888 132720 102239 115764 130558 122666 134495 124017 106925 105309	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA452556 AA450552 D63477 F02202 AA491261 AA491361 AA61805 AA233790	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164866 Hs.15250 Hs.5541 Hs.1376 Hs.99387 Hs.99387 Hs.84087 Hs.84087 Hs.84087 Hs.400960 Hs.37558 Hs.44021 Hs.4104	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysterold (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs Homo sapiens clone 23923 mRNA sequence ESTs ESTs; Weakly similar to cDNA EST yk386g7	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 10300 129717 108565 121314 124803 13288 132720 102239 115764 130558 122666 134495 124017 106925 115187 105309 105309 124457	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 A4620556 AA490775 Z69881 U26726 AA421562 H96654 AA455052 D63477 F02202 AA491261 AA261805 AA233790 N50114	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.99061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.15250 Hs.15250 Hs.5541 Hs.1546 Hs.15250 Hs.5541 Hs.15984 Hs.99387 Hs.99387 Hs.10960 Hs.37558 Hs.40021	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ubiquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	
132883 132618 108931 131421 107295 103576 105173 134843 102009 103997 1066099 101300 129717 108565 121314 124803 132288 132720 102239 115764 130558 122666 124017 106925 115187 105309 124457 130616	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA4520556 AA491261 AA4580556 AA490775 Z69881 U26726 AA421562 H96654 AA4520556 AA43177 F02202 AA491261 AA261805 AA233790 N50114 AA233763	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164866 Hs.15250 Hs.5541 Hs.1376 Hs.99387 Hs.99387 Hs.84087 Hs.84087 Hs.84087 Hs.400960 Hs.37558 Hs.44021 Hs.4104	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs Homo sapiens clone 23923 mRNA sequence ESTs ESTs; Weakly similar to cDNA EST yk386g7 ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
132883 132618 108931 131421 107295 103576 105173 134843 102009 103997 1066099 101300 129717 108565 121314 124803 132288 132720 102239 115764 130558 122666 124017 106925 115187 105309 124457 130616	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA4520556 AA491261 AA4580556 AA490775 Z69881 U26726 AA421562 H96654 AA4520556 AA43177 F02202 AA491261 AA261805 AA233790 N50114 AA233763	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.15250 Hs.5541 Hs.15250 Hs.5541 Hs.1376 Hs.9387 Hs.84087 Hs.900960 Hs.400960	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgtucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs Homo sapiens clone 23923 mRNA sequence ESTs ESTs; Weakly similar to cDNA EST yk386g7 ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	
132883 132618 108931 131421 107295 103576 105173 134843 102009 103997 1066099 101300 129717 108565 121314 124803 132288 132720 102239 115764 130558 122666 124017 106925 115187 105309 124457 130616	AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H98654 AA455052 D63477 F02202 AA491261 AA233790 N50114 AA233793 AA369245	Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164666 Hs.15250 Hs.5541 Hs.1376 Hs.1376 Hs.191011 Hs.15984 Hs.99387 Hs.84087 Hs.90060 Hs.37558 Hs.4104 Hs.128704 Hs.128704	Homo sapiens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ubiquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs	2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	

Table 13: H chip – Met vs Normal query – up in Mets

Pkey: Unique Eos probeset identifier number
ExAcon: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete_Title	Ratio Met/Norma	al
	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	8.457	
111307	N73988	Hs.37477	ESTs; Weakly similar to CGI-141 protein	6.05	
103119	X63629	Hs.2877	cadherin 3; P-cadherin (placental)	5.207	
131564	AA491465	Hs.28792	ESTs	5.136	
119729	W69747	Hs.94806	KIAA1062 protein	4.667	
124059		Hs.99769	ESTs	4.398	
123987		Hs.95497	ESTs; Weakly similar to GLUCOSE TRANSF	OR	4.292
128817		Hs.28491	spermidine/spermine N1-acetyltransferase	3.964	
	M69197	Hs.242279	haptoglobin-related protein	3.823	
	AA406554	Hs.241572	golgi autoantigen; golgin subfamily a; 5	3.719	
	AA024482	Hs.9029	DKFZP434G032 protein	3.702	
	AA283035	Hs.54813	ESTs	3.645	
	X70683	Hs.83484	SRY (sex determining region Y)-box 4	3.581	
	R05818	Hs.173830	ESTs	3.446	
	AA496805	Hs.177425	KIAA0964 protein	3.42	
130724	AA370091	Hs.179680	ESTs	3.402	
128992	R49693	Hs.107708	ESTs	3.32	
133421	AA436560	Hs.7327	claudin 1	3.255	
103047		Hs.73839	ribonuclease; RNase A family; 3 (eosinop	3.229	
	X51441	Hs.181062	serum amyloid A1	3.149	
115429	AA284139	Hs.89295	EST	3.114	
129158	J05257	Hs.109	dipeptidase 1 (renal)	3.019	
123533	AA608751	Hs.244904	ESTs; Weakly similar to III! ALU SUBFAMI	3.011	

Table 14: H chip – Met vs Normal query – down in Mets

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

PkeyY	Ex Accn	UniG_ID	Complete_Title	Ratio Met/Normal	
	Y00339	Hs.155097	carbonic anhydrase II	0.012	
104258	AF007216	Hs.5462	solute carrier family 4; sodium bicarbon	0.025	
108999	AA156064	Hs.72115	ESTs	0.034	
	K01160		Accession not listed in Genbank	0.041	
	H57056	Hs.204831		0.042	
	L76465		hydroxyprostaglandin dehydrogenase 15-(N		
	U11313	Hs.75760		0.054	
111000	R37362	Hs.21351		0.055	
122127	U19495		stromal cell-derived factor 1 ESTs; Weakly similar to secreted cement	0.058 0.06	
	D51235		tumor rejection antigen (gp96) 1	0.06	
	U67319	Hs.9216	caspase 7; apoptosis-related cysteine pr	0.063	
		Hs.10706		0.065	
		Hs.108681		0.069	
	N30796		ESTs; Weakly similar to semaphorin F [H.	0.069	
100116	D00654	Hs.77443	actin; gamma 2; smooth muscle; enteric	0.071	
116786	H25836		tumor necrosis factor (ligand) superfami	0.074	
130867	J04093	Hs.2056	UDP glycosyltransferase 1	0.075	
	F09557	Hs.57929	slit (Drosophila) homolog 3	0.076	
	D11925		KIAA0929 protein Msx2 Interacting nuclea	0.081	
		Hs.7946 Hs.86030		0.084 0.088	
	N73702	Hs.238927		0.091	
		Hs.117816	-	0.092	
		Hs.106106		0.093	
	N79237	Hs.50813		0.094	
134534	X73501	Hs.84905		0.095	
	W32094	Hs.55501	ESTs	0.096	
	W15263	Hs.5422	ESTs	0.098	
128482	U83908 N92884	Hs.100407	programmed cell death 4	0.102	
	N92884 AA093348			0.106	
	AA454930		secreted frizzled-related protein 1 ESTs	0.108 0.109	
		Hs.44829		0.111	
	AA171913		carbonic anhydrase XII	0.112	
131273	AA421139	Hs.173542		0.113	
	F10577	Hs.70312	ESTs	0.114	
	S71043		immunoglobulin alpha 1	0.114	
	R66534	Hs.28403		0.115	
	W67251 H93575	Hs.37331	Homo sapiens vav 3 oncogene (VAV3) mRN/ Homo sapiens mRNA; cDNA DKFZp564J142		
		Hs.44343		0.119	
	D20458	Hs.229071		0.12	
			ATP-binding cassette; sub-family G (WHIT	0.122	
	L11708		hydroxysteroid (17-beta) dehydrogenase 2	0.122	
	M12759		Human Ig J chain gene	0.122	
		Hs.31412		0.125	
	X77777		vasoactive intestinal peptide receptor 1	0.125	
			paternally expressed gene 3 ESTs	0.127	
134604	AA348014 M22995	Hs.865	RAP1A; member of RAS oncogene family	0.128 0.128	
134711	X04011	Hs.88974		0.128	
			DKFZP586A0522 protein	0.133	
	D51119		tetraspan 3	0.133	
	T90621	Hs.109052	chromosome 14 open reading frame 2	0.133	
	AA621103		ESTs; Moderately similar to !!!! ALU SUB	0.135	
	M60830	Hs.5509	ecotropic viral integration site 2B	0.135	
	W60097	Hs.99120	DEAD/H (Asp-Glu-Ala-Asp/His) box polypep	0.135	
	AA207114 AA287383		ESTs; Weakly similar to similar to 1-acy ESTs	0.137 0.137	
	L10955	Hs.89485	carbonic anhydrase IV	0.137	
		Hs.256269		0.139	

400000	44400000	05050	507	0.400	
	AA489636 L02785	Hs.1650	ESTs	0.139 0.14	
	Z40718	Hs.20196	down-regulated in adenoma adenylate cyclase 9	0.14	
	W86600	Hs.9842	ESTS	0.141	
101185	L19872		aryl hydrocarbon receptor	0.145	
	AA393876	Hs.1255	nuclear receptor subfamily 2; group F; m	0.145	
133889	AA099391	Hs.211582	myosin; light polypeptide kinase	0.145	
	AA377254			0.147	
	N74690 AA256323		ESTS	0.149	
131011	R41771	Hs.22146		0.151 0.153	
	AA428239			0.154	
	Z38161		plasma glutamate carboxypeptidase	0.154	
133011	AA042990	Hs.171921	sema domain; immunoglobulin domain (lg);	0.154	
115967	AA446887	Hs.42911	ESTs	0.154	
	U60115		Homo sapiens skeletal muscle LIM-protein	0.155	
	HG3115-HT		Golli-Mbp (Gb:L18862)	0.155	
	AA235404 AA628600		Homo sapiens clone 25186 mRNA sequence	0.155	
	T67053		immunoglobulin lambda gene cluster	0.157	
123264	AA491003	Hs.99824	BCE-1 protein	0.159	
	AA291710		collagen; type IV; alpha 3 (Goodpasture	0.159	
	Z11793	Hs.3314	selenoprotein P; plasma; 1	0.161	
101478	M23379	Hs.758	RAS p21 protein activator (GTPase activa	0.162	
	AA142913		ESTs	0.164	
	HG2743-H1		Caldesmon 1, Alt. Splice 6, Non-Muscle	0.167	
	AA599801			0.167	
	AA416997			0.169	
	C02386 N36421	Hs.107139	· · -	0.171	0.172
170462	N36421 D84239 V01512	Ho 111722	ESTs; Weakly similar to SODIUM- AND CHLO	0.174	0.172
131328	V01512	He 25647	v-fos FBJ murine osteosarcoma viral onco	0.174	
	AA490262				
	AA421562		anterior gradient 2 (Xenepus laevis) hom	0.177	
	AA436830			0.179	
106605	AA457718	Hs.21103	Homo sapiens mRNA; cDNA DKFZp564B076	(fr	0.179
	H09813	Hs.12896		0.181	
	L40391	Hs.6445	Homo sapiens (clone s153) mRNA fragment		
			polymeric immunoglobulin receptor	0.182	
			transmembrane glycoprotein	0.186	
	AA455052 AA252893		ESTs ESTs	0.188 0.189	
	AA151676		peptidyl arginine deiminase; type II	0.19	
	D31888	Hs.78398	KIAA0071 protein	0.192	
			ESTs; Moderately similar to !!!! ALU SUB	0.192	
	N36001	Hs.17348	ESTs; Weakly similar to !!!! ALU SUBFAMI	0.193	
131676	C20785	Hs.30514	ESTs	0.195	
	N54792		cytidine monophosphate-N-acetylneuramini	0.196	
	AA256042		ESTs	0.196	
	T235,17	Hs.7149	ESTs	0.196	
	AA214305		ESTS	0.196	
	W68388 X67235	Hs.21288	ESTs; Weakly similar to KIAA0704 protein	0.197	
	U37518	Hs.83429	hematopoletically expressed homeobox tumor necrosis factor (ligand) superfami	0.198 0.2	
	N90223	Hs.23392	ESTs	0.2	
	AA599850		ESTs; Weakly similar to similar to BPTI/	0.2	
123802	AA620448			0.2	
	H88033		KIAA0733 protein	0.2	
	R77539	Hs.15285	ESTs	0.2	
	H04644		ESTs; Weakly similar to !!!! ALU SUBFAMI	0.2	
	U44378	Hs.75862	MAD (mothers against decapentaplegic; Dr	0.2	
	AA621399 F03031	Hs.27519	ESTs ESTs	0.201 0.202	
	T23983	Hs.7365	ESTs	0.202	
	X52001	Hs.1408	endothelin 3	0.204	
	W38294		Accession not listed in Genbank	0.204	
	AA121266	Hs.34641	ESTs	0.204	
100749	HG3521-HT	3715	Ras-Related Protein Rap1b	0.205	
	AA147537	Hs.4811	ESTs	0.208	
	N67470	Hs.173074	DKFZP564O1863 protein	0.21	
	AA298786			0.21	
		Hs.65641 Hs.6093	ESTs ESTs	0.21 0.21	
	T15482			0.211	
11000	W42789	HS.31446	ESIS	U.ZII	
110792	W42789 N24899	Hs.31446 Hs.6630	ESTs ESTs	0.212	
110792 105178	W42789 N24899 AA187490	Hs.6630	ESTS ESTS		

107295	T34527	Hs.80120	UDP-N-acetyl-alpha-D-galactosamine:polyp	0.212	
	AA279112		ESTs	0.213	
	AA429038	Hs.40541	ESTs	0.213	
	X73079	Hs.205126	polymeric immunoglobulin receptor	0.214	
	AA099820		ESTs	0.215	
105173	AA182030	Hs.8364	ESTs	0.217	
	AA084677	Hs.54558	ESTs; Weakly similar to protein B [H.sap	0.217	
	H09594	Hs.10299	ESTs	0.217	
	Y00264	Hs.177488	arnyloid beta (A4) precursor protein (pro	0.217	
	T71333	Hs.13854	ESTs	0.219	
114542	AA055768	Hs.122576	ESTs	0.219	
	L02326	Hs.198118	Immunoglobulin lambda-like polypeptide 2	0.22	
101809	M86849		Homo saplens connexin 26 (GJB2) mRNA, co	0.222	
105795	AA369245	Hs.17448	ESTs; Weakly similar to IIII ALU SUBFAMI	0.222	
132119	H99211	Hs.40334	ESTs	0.222	
132733	R25385	Hs.123654	KIAA0824 protein	0.222	
109415	AA227219	Hs.110826	trinucleotide repeat containing 9	0.222	
	T40530	Hs.8241	ESTs; Weakly similar to heat shock prote	0.223	
	AA600147		ESTs; Weakly similar to NADH-cytochrome	0.224	
	Z70295	Hs.32966		0.225	
	AA001049		Homo sapiens mRNA; cDNA DKFZp586G012	3 (f	0.225
	R18070	Hs.3712	ubiquinol-cytochrome c reductase; Rieske	0.227	
132015	D11900	Hs.3731	ESTs	0.227	
	AA233763		Homo saplens mRNA; cDNA DKFZp564A132	(fr	0.227
	AA047151		Homo sapiens mRNA; cDNA DKFZp586P162		0.23
			ESTs; Weakly similar to Gag-Pol polyprot	0.233	
	AA261805		ESTs	0.234	
	H28581	Hs.15641	ESTs	0.234	
	T57112		yc20g11.s1 Stratagene lung (#937210) Hom	0.235	
	W45457	Hs.203559	ESTs	0.235	
	R45480	Hs.164866		0.235	
	H64938	Hs.38331	ESTs	0.235	
102759	U81607	Hs.788	A kinase (PRKA) anchor protein (gravin)	0.238	
			tumor necrosis factor receptor superfami	0.238	
	D31161	Hs.68613		0.238	
	AA425154			0.239	
	Z69881	Hs.5541	ATPase; Ca++ transporting; ubiquitous	0.24	
	D62965	Hs.31297		0.24	
	R38678	Hs.12365		0.241	
	U35139	Hs.50130		0.244	
	AA084602			0.244	
			CDW52 antigen (CAMPATH-1 antigen)	0.244	
			cadherin 19 (NOTE: redefinition of symbo	0.244	
	AA250745			0.244	
	M63438		Immunoglobulin kappa variable 1D-8	0.245	
	R78190		ESTs; Weakly similar to cDNA EST EMBL:TO	0.245	
	AA257976			0.245	
	X57809		immunoglobulin lambda gene cluster	0.246	
	AA147186			0.246	
	AA458652		ESTs	0.248	
	AA393810		ESTs	0.25	
	L34657	Hs.78146	platelet/endothelial cell adhesion molec	0.25	
	D43636	Hs.79025		0.25	
	R38185	Hs.83954	Homo sapiens unknown mRNA	0.25	

Table 15: I chip - Met vs Normal query - up in Mets

Pkey: Unique Eos probeset identifier number
ExAccn: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex_Accn	UniG_ID	Title	Ratio Met/Normal
319379		Hs.193963	ESTs	18.71
321920	N63915		EST cluster (not in UniGene)	11.9
314522	AI732331	Hs.187750	ESTs; Moderately similar to IIII ALU CLA	7.23
315720	AW291875	Hs.163900	ESTs	6.06
308010	AI439190	Hs.181165	eukaryotic translation elongation factor	5.76
313774	AW136836	Hs.144583	ESTs	5.01
300734	AW205197	Hs.240951	ESTs	3.98
337895			CH22_EM:AC005500.GENSCAN.56-2	3.98
312339	AA524394		EST cluster (not in UniGene)	3.66
331644	T99544	Hs.173734	ESTs; Weakly similar to IIII ALU CLASS B	3.53
	A1436356	Hs.130729	ESTs	3.52
324302	AA543008	Hs.136806	ESTs; Weakly similar to !!!! ALU SUBFAMI	3.41
314912	AI431345	Hs.161784	ESTs	3.33
319403	T98413		EST cluster (not in UniGene)	3.32
308676	AI761036		EST singleton (not in UniGene) with exon	3.27
331858	AA421163	Hs.163848	ESTs	3.22
315178	AW362945	Hs.162459	ESTs	3.21
321354	AA078493		EST cluster (not in UniGene)	3.18
337898			CH22_EM:AC005500.GENSCAN.56-5	3.16
322682	Al110679		EST duster (not in UniGene)	3.15
313197	AI738851	Hs.222487	ESTs	3.1
308991	AI879831		EST singleton (not in UniGene) with exon	3.08
310016	AW449612	Hs.152475	ESTs	3.05

Table 16: I chip – Met vs Normal query – down in Mets

Pkey: Unique Eos probeset identifier number

ExAcen: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex_Accn	UniG_ID	title	Ratio Met/Normal
303041	AF127035		EST cluster (not in UniGene) with exon h	0.02
302360	AJ010901	Hs.198267	mucin 4; tracheobronchial	0.03
	AA344647	Hs.116724	aldo-keto reductase family 1; member B11	0.03
336091			CH22_FGENES.689_3	0.04
333657			CH22_FGENES.241_2	0.04
333658			CH22_FGENES.241_2 CH22_FGENES.241_4 CH22_FGENES.261_1	0.04
333737 333656			CH22_FGENES.201_1	0.05 0.05
		He 104650	CH22_FGENES.240_4 chloride channel; calcium activated; fam	0.06
336084	AF033400	119/10/03	CH22 FGENES.688 13	0.06
	AA449749	Hs.31386	ESTs; Highly similar to secreted apoptos	0.06
	AA434241		EST singleton (not in UniGene) with exon	0.07
	AF067797		EST cluster (not in UniGene) with exon h	0.07
334030			CH22_FGENES.320_2	0.07
332859			CH22_FGENES.27_2	0.07
333654			CH22_FGENES.240_2	0.07
	AL120518			0.08
	Y13323	HS.145296	disintegrin protease	0.08
333637			CH22_FGENES.229_2	0.08 0.08
	AA382603 U67058		EST cluster (not in UniGene) Human proteinase activated receptor-2 mR	
	X63597			0.08
	H75860			0.08
	AI719930		EST singleton (not in UniGene) with exon	0.09
	AA722425		EST cluster (not in UniGene)	0.09
335188			CH22_FGENES.507_3	0.09
333730			CH22_FGENES.258_1	0.09
	AA430373		EST singleton (not in UniGene) with exon	0.09
336081			CH22_FGENES.688_10	0.1
	AA598594			0.1
	N28625		caveolin 1; caveolae protein; 22kD immunoglobulin alpha 1	0.1
	NM_00273		immunoglobulin alpha 1 EST cluster (not in UniGene) v-fos FBJ murine osteosarcoma viral onco	0.1 0.11
			v-fos FBJ murine osteosarcoma viral onco	
	AW062570			0.11
	AI983437			0.11
	N98619	Hs.62461	ARP2 (actin-related protein 2; yeast) ho	0.12
333647			CH22_FGENES.235_2	0.12
333588			CH22_FGENES.206_2	0.12
	Al380940		EST cluster (not in UniGene)	0.12
	U96044		EST cluster (not in UniGene)	0.13
335687	AA743462	Un 165227	CH22_FGENES.596_2	0.13 0.14
335115		113.100007	CH22_FGENES.496_2	0.14
	AA541644	Hs.186044		0.14
337951			CH22_EM:AC005500.GENSCAN.94-1	0.14
		Hs.184507	Homo sapiens Chromosome 16 BAC clone C	HT 0.14
300921	AW293224	Hs.232165	ESTs	0.14
333646			CH22_FGENES.234_2	0.14
335116			CH22_FGENES.496_3	0.14
	AL039402	Hs.125783	DEME-6 protein	0.15
336092	DE7022	Un nonco	CH22_FGENES.689_6	0.15
	D57823 AF129532	HS.92802	Sec23 (S. cerevisiae) homolog A EST cluster (not in UniGene) with exon h	0.16 0.16
337954	AF 123332		CH22_EM:AC005500.GENSCAN.96-3	0.16
336645			CH22_FGENES.26-1	0.16
335651			CH22_FGENES.590_2	0.16
	AL044570	Hs.147975		0.17
336124			CH22_FGENES.701_9	0.17
	AA877996			0.17
	AW044647			0.17
320825	NM_00475	1	EST cluster (not in UniGene)	0.18

302049	AA377072	Hs.129792	Homo sapiens Chromosome 16 BAC clone	CIT	0.18
336083				0.18	
333653			CH22_FGENES.688_12 CH22_FGENES.239_2 EST cluster (not in UniGene)	0.18	
323243	W44372		EST cluster (not in UniGene)	0.19	
316610	AW087973	Hs.126731	ESTs	0.19	
315033	AI493046	Hs.146133	ESTs	0.19	
330551	U39840	Hs.105440	hepatocyte nuclear factor 3; alpha CH22_FGENES.231_2	0.19	
333642			CH22_FGENES.231_2	0.19	
301281	AA843986	Hs.190586	ESTs	0.2	
333626			CH22_FGENES.224_2	0.21	
303792	C75094	Hs.199839	ESTs; Highly similar to NG22 [H.sapiens]	0.21	
332325	T79428	Hs.191264	ESTs	0.21	
321223	AA431366		EST cluster (not in UniGene)	0.21	
333635			CH22_FGENES.228_2	0.22	
314645	A1808999	Hs.207570	EST cluster (not in UniGene) CH22_FGENES.228_2 ESTs ESTs	0.22	
322929	Al365585	Hs.146246	ESTs	0.22	
324718	AI557019	Hs.116467	ESTs	0.22	
335652			CH22_FGENES.590_3	0.22	
307783	AI347274		EST singleton (not in UniGene) with exon		
331344	AA357927	Hs.70208	ESTs	0.22	
336088			ESTS CH22_FGENES.688_17 BENE protein CH22_FGENES.596_7 CH22_FGENES.210_2 CH22_FGENES.590_18 ESTs	0.23	
320802	D83824	Hs.185055	BENE protein	0.23	
335692			CH22_FGENES.596_7	0.23	
333593			CH22_FGENES.210_2	0.23	
335667			CH22_FGENES.590_18	0.24	
314853	AA729232	Hs.153279	ESTs	0.24	
320244	AA296922	Hs.129778	ests gastrointestinal peptide ESTs	0.24	
305080	AA641485		EST singleton (not in UniGene) with exon		
335189			CH22_FGENES.507_4	0.25	

Table 17: B survivor vs Mets – Up in B survivor

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete Title	Ratio BS/Met	
101006	J04132	Hs.97087	CD3Z antigen; zeta polypeptide (TiT3 com	7.28	
	Z39050	Hs.21963	ESTs	6.13	
	X82206		ARP1 (actin-related protein 1; yeast) ho	5.77	
	HG3872-H		Immunoglobulin Gamma Heavy Chain, V(6)D		5.63
		Hs.49005		5.62	
	M12759	Hs.76325	Human Ig J chain gene	5.46	
	D86972	Hs.75863 Hs.105403	KIAA0218 gene product	5.45	
	X76302	Hs.54649	putative nucleic acid binding protein RY	5.28 5.25	
	AA293194		ESTs	5.22	
	D17516	Hs.4748	adenylate cyclase activating polypeptide	5.14	
	AA621202		DKFZP586D1519 protein	5.1	
103566	Z22555	Hs.180616	CD36 antigen (collagen type I receptor;	5.06	
	T79203	Hs.14480	ESTs	4.99	
	U38864		zinc finger protein 212	4.96	
	H78003			4.93	
		Hs.113025		4.92	
	W81301	Hs.51483	ubiquitin specific protease 22 ESTs	4.91 4.77	
		Hs.30570		4.65	
	N74442	Hs.183696		4.6	
		Hs.72115		4.57	
	R93908	Hs.35258		4.54	
111655	R16884	Hs.187462	ESTs	4.48	
	T90672	Hs.238859		4.42	
		Hs.183232		4.41	
	D82061		Ke6 gene; mouse; human homolog of	4.4	
	T95085	Hs.125182		4.4	
		Hs.207422		4.32	
	L13266 S78873	Hs.105	glutamate receptor; ionotropic; N-methyl RAB Interacting factor	4.3 4.26	
	HG4593-H		Sodium Channel 1	4.24	
	HG3115-H		Golli-Mbp (Gb:L18862)	4.21	
			Homo sapiens mRNA; cDNA DKFZp566P234		
		Hs.22851		4.16	
131551	AA127867	Hs.28608		4.15	
-	T99373	Hs.189786		4.09	
	AA401091	11- 000070	ESTS	4.07	
		Hs.239676		4.06	
	X98206	Hs.20010	H.sapiens mRNA for UV-B repressed sequen ESTs	4.03	
	L36720	Hs.106880		4.02	
	HG3236-HT		Neurofibromatosis 2 Tumor Suppressor (Gb:L		
			KIAA0921 protein	3.98	
134877	AA455241	Hs.90527	ESTs	3.97	
		Hs.180696		3.94	
		Hs.108824	ESTs; Weakly similar to cDNA EST yk415c1		
101909			Homo saplens mRNA for PLE21 protein; com	3.93	
108390	AA075070		zm86b6.s1 Stratagene ovarian cancer (#93	PREC 3.93	
135403	1106643	Hs.99923	LYMPHOCYTE ANTIGEN LY-6A.2/LY-6E.1 Flectin; galactoside-binding; soluble; 7	3.89	
121038	AA398536	Hs.97365	ESTs	3.88	
128496		Hs.100610		3.86	
	AA128946		ESTs	3.86	
	W79499	Hs.58580	ESTs	3.85	
130109	L12060	Hs.1497	retinoic acid receptor, gamma	3.84	
	U79288	Hs.85053	KIAA0513 gene product	3.83	
	H38209	Hs.32728		3.81	
	H49425	Hs.32992	ESTs	3.78	
	R36138	Hs.152458	ESTS	3.76 3.74	
	N27086 AA164851	Hs.21068	ESTs; Weakly similar to HERV-E envelope	3.73	
100142	AT 10103 I	113.13000	entering Stilling in Little Trembe	0.10	

	U84569	Hs.153452	chromosome 21 open reading frame 2	3.73	
	AA020942	Hs.17200	STAM-like protein containing SH3 and ITA	3.73	
123378	AA521043	Hs.185832	ESTs	3.73	
	AA313880		EST185737 Colon carcinoma (HCC) cell lin	3.73	
	R60822	Hs.26805	EST	3.72	
100980	J03069	Hs.72931	v-myc avian myelocytomatosis viral oncog	3.72	
	U64863		programmed cell death 1	3.7	
108974	AA151402	Hs.46531	ESTs	3.7	
130192	Y12661	Hs.171014	VGF nerve growth factor inducible	3.69	
131318	X51699	Hs.2558	bone gamma-carboxyglutamate (gla) protei	3.68	
113759	T99364	Hs.16074	Homo saptens mRNA; cDNA DKFZp564I153	(fr	3.66
133712	L19267	Hs.198836	dystrophia myotonica-containing WD repea	3.65	
134229	R15108	Hs.8037	ESTs	3.65	
134241	AA300265	Hs.80540	KIAA0195 gene product	3.65	
	R06413		arrestin; beta 1	3.62	
	U03115		Human V beta T-cell receptor (TCRBV) gen	3.62	
128511	AA425636	Hs.10082	potassium intermediate/small conductance	3.62	
	AA253412			3.61	
	R41389	Hs.26159		3.6	
	R49548		death effector domain-containing	3.6	
	L02326		immunoglobulin lambda-like polypeptide 2	3.59	
	H84261		ESTs; Weakly similar to similar to GTP-b	3.56	
	U41804		putative T1/ST2 receptor binding protein	3.55	
	R50247	Hs.91600		3.55	
	X60483	Hs.91031		3.54	
	U07664	Hs.37035		3.52	
	AA412686			3.52	
			ESTs; Weakly similar to KIAA0747 protein	3.51	
			EST; Weakly similar to HC1 ORF [M.muscul	3.51	
	R08160		ESTs; Weakly similar to Itili ALU SUBFAMI	3.51	
	H38858	Hs.251783		3.5	
			KIAA1036 protein	3.5	
	AA421758		ESTs	3.49	
	AA521448			3.49	
				3.49	
			ESTs; Weakly similar to salivary proline		
	X93996		myeloid/lymphoid or mixed-lineage leukem	3.48	
	AA477715		golgi autoantigen; golgin subfamily a; 3 EST	3.47 3.47	
11/191	H99394	Hs.40339			
400040	VATACA		and the second s		
	X87852	Hs.21432	H.sapiens mRNA for SEX gene	3.46	
130700	D55696	Hs.21432 Hs.18069	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain)	3.46 3.43	
130700 131301	D55696 T17386	Hs.21432 Hs.18069 Hs.164501	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs	3.46 3.43 3.43	
130700 131301 100818	D55696 T17386 HG4018-HT	Hs.21432 Hs.18069 Hs.164501 4288	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule	3.46 3.43 3.43 3.43	
130700 131301 100818 103393	D55696 T17386 HG4018-HT X94612	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II	3.46 3.43 3.43 3.43 3.43	
130700 131301 100818 103393 131337	D55696 T17386 HG4018-HT X94612 AA228116	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein	3.45 3.43 3.43 3.43 3.43 3.42	
130700 131301 100818 103393 131337 133403	D55696 T17386 HG4018-HT X94612 AA228116 X68688	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.72991	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Motecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31)	3.46 3.43 3.43 3.43 3.43 3.42 3.42	
130700 131301 100818 103393 131337 133403 124728	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231	Hs.21432 Hs.18069 Hs.164501 '4288 Hs.41749 Hs.170204 Hs.72991 Hs.106620	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Motecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence	3.46 3.43 3.43 3.43 3.43 3.42 3.42 3.42	
130700 131301 100818 103393 131337 133403 124728 123168	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881	Hs.21432 Hs.18069 Hs.164501 '4288 Hs.41749 Hs.170204 Hs.72991 Hs.106620 Hs.105218	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opiold-Binding Cell Adhesion Motecute protein kinase; cGMP-dependent; type II KIAA0551 protein 230 (KOX 31) Homo sapiens done 23950 mRNA sequence EST	3.46 3.43 3.43 3.43 3.43 3.42 3.42 3.41 3.39	
130700 131301 100818 103393 131337 133403 124728 123168 123324	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.72991 Hs.106620 Hs.105218 Hs.105399	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Motecute protein kinase; cGMP-dependent; type II KIAA0551 protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein	3.46 3.43 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38	
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932 AA496685	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.72991 Hs.105620 Hs.105218 Hs.105399 Hs.37936	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Motecute protein kinase; cGMP-dependent; type II KIAA0551 protein 23b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil	3.46 3.43 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38	
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932 AA496685 F11065	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.105219 Hs.105218 Hs.105399 Hs.37936 Hs.79363	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs	3.46 3.43 3.43 3.43 3.42 3.42 3.42 3.41 3.39 3.38 3.38 3.38	
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932 AA496685 F11065 U88629	Hs.21432 Hs.18069 Hs.164501 '4288 Hs.41749 Hs.170204 Hs.72991 Hs.105620 Hs.105399 Hs.37936 Hs.79363 Hs.173334	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON	3.46 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO	3.34
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932 AA496685 F11065	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.72991 Hs.105620 Hs.105399 Hs.37936 Hs.37936 Hs.79363 Hs.173334 Hs.44286	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Motecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs	3.46 3.43 3.43 3.43 3.42 3.42 3.42 3.41 3.39 3.38 3.38 3.38	3.34
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794 117503 112220	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA48881 AA496932 AA496685 F11065 U88629 N31963 R50295	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.105218 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.79363 Hs.44286 Hs.25703	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opiold-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KMA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ESTs ESTs	3.46 3.43 3.43 3.43 3.42 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO 3.33 3.33	3.34
130700 131301 100818 103393 131337 133403 124728 123168 123368 123364 116717 102794 117503 112220 106340	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA48881 AA496932 AA496685 F11065 U88629 N31963 R50295 AA441792	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.105218 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.79363 Hs.44286 Hs.25703 Hs.22857	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opiold-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KMA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ESTs ESTs ESTs ESTs chord domain-containing protein 1	3.46 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO 3.33 3.33 3.33	3.34
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794 117503 112220 106340 106308	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA486831 AA496932 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186	Hs.21432 Hs.18069 Hs.164501 '4288 Hs.41749 Hs.170204 Hs.105218 Hs.105218 Hs.37936 Hs.37936 Hs.79363 Hs.173334 Hs.44286 Hs.25703 Hs.257703 Hs.22857 Hs.30662	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs ESTs chord domain-containing protein 1	3.46 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO 3.33 3.33 3.33 3.33 3.33	3.34
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794 117503 112220 106340 106308 130894	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105	Hs.21432 Hs.18069 Hs.164501 '4288 Hs.41749 Hs.170204 Hs.72991 Hs.106620 Hs.105218 Hs.37936 Hs.37936 Hs.79363 Hs.173334 Hs.44286 Hs.225703 Hs.22857 Hs.30662 Hs.210	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs ESTs elukocyte tyrosine kinase	3.46 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO 3.33 3.33 3.33 3.33 3.33 3.33	3.34
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794 117503 112220 106340 106389 130894 120039	D55696 T17386 HG4018-HT X68688 R16231 AA48881 AA496932 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105 W92548	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.72991 Hs.106620 Hs.105218 Hs.37536 Hs.79363 Hs.79363 Hs.44286 Hs.25703 Hs.22857 Hs.30662 Hs.30662 Hs.30662 Hs.3100 Hs.3100 Hs.32857	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Motecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs ESTs chord domain-containing protein 1 ESTs leukocyte tyrosine kinase ESTs	3.46 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 (GATIO 3.33 3.33 3.33 3.33 3.33 3.33 3.33 3.	3.34
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130700 131301 100818 103332 131337 133403 124728 123168 123324 106947 116717 102794 117503 112220 106340 106308 130894 120039 131428 113285 10948 132134 118964 127621 135149 11437 130043 121347 105754 121327 111204 120949 130024	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105 W92548 U17838 T66830 AA232648 AA232648 AA24994 N93330 A1218205 U40002 Z41835 AA405181 AA302657 AA405181 AA302657 AA404286 N68295 AA4397830 U15197	Hs.21432 Hs.18069 Hs.164501 '4288 Hs.41749 Hs.170204 Hs.105218 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.173334 Hs.44286 Hs.25703 Hs.2857 Hs.2857 Hs.2857 Hs.286719 Hs.182712 Hs.87068 Hs.40637 Hs.116204 Hs.94985 Hs.40637 Hs.116204 Hs.95351 Hs.77810 Hs.193953 Hs.173125 Hs.173125 Hs.173125 Hs.173125 Hs.173125 Hs.173125 Hs.173125 Hs.173125 Hs.173125 Hs.173125	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens clone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs ESTs chord domain-containing protein 1 ESTs leukocyte tyrosine kinase ESTs ESTs ESTs ESTs FR domain containing 2; with ZNF domain ESTs ESTs ESTs ESTs ESTs ESTs Froline-rich Gla (G-carboxyglutamic acid Homo sapiens clone 24722 unknown mRNA; ESTs ESTs ESTs ESTs; Weakly similar to IIII ALU SUBFAMI ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	3.46 3.43 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO 3.33 3.33 3.33 3.33 3.31 3.31 3.3 3.29 p 3.28 g 3.27 g 3.25 g 3.25 g 3.25	3.29
130700 131301 100818 103332 131337 133403 124728 123168 123324 10597 116717 102794 117503 112220 105340 105340 130894 120039 131428 132134 118964 127621 135149 114371 1301347 105754 121327 111204 120949 130094 130094 130094 130094 130094 130094 130094 130094 130094 130094 125005	D55696 T17386 HG4018-HT X68688 R16231 AA488881 AA488881 AA486932 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105 W92548 U17838 T66830 AA232648 AA242904 N93330 AI218205 U40002 Z41835 AA405181 AA302657 AA405181 AA302657 AA404286 N68295 AA397830 U15197 T61449	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.79363 Hs.173334 Hs.44286 Hs.25703 Hs.25703 Hs.26719 Hs.182712 Hs.87068 Hs.40637 Hs.54937 Hs.116204 Hs.95351 Hs.97972 Hs.192028 Hs.193953 Hs.173125 Hs.192028 Hs.173125 Hs.37982 Hs.192028 Hs.173125 Hs.37982 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.241560 Hs.193727	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens clone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELONESTS ESTS chord domain-containing protein 1 ESTs leukocyte tyrosine kinase ESTs PR domain containing 2; with ZNF domain ESTs ESTs ESTs ESTs ESTs ESTS ESTS ESTS	3.46 3.43 3.43 3.43 3.42 3.42 3.41 3.39 3.38 3.38 3.36 GATIO 3.33 3.33 3.33 3.33 3.31 3.31 3.31 3.31 3.32 9 3.29 9 3.29 9 3.29 9 3.25 3.26 3.26 3.26 3.27	3.29
130700 131301 100818 103393 131337 133403 124728 123168 123324 106947 116717 102794 117503 112220 106340 106340 106389 130894 120039 131428 13285 109458 132134 114371 130043 121347 115754 121327 111204 120949 130024 125005 121067	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105 W92548 U17838 T66830 AA232648 AA242904 N93330 AI218205 U40002 Z41835 AA05181 AA302657 AA404286 N68295 AA397830 U15197 T61449 AA398662	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.79363 Hs.173334 Hs.44286 Hs.25703 Hs.25703 Hs.26719 Hs.182712 Hs.87068 Hs.40637 Hs.54937 Hs.116204 Hs.95351 Hs.97972 Hs.192028 Hs.193953 Hs.173125 Hs.192028 Hs.173125 Hs.37982 Hs.192028 Hs.173125 Hs.37982 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.241560 Hs.193727	H.sapiens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens clone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELONESTS ESTS chord domain-containing protein 1 ESTs leukocyte tyrosine kinase ESTs PR domain containing 2; with ZNF domain ESTs ESTs ESTs ESTs ESTs ESTS ESTS ESTS	3.46 3.43 3.43 3.43 3.43 3.42 3.41 3.39 3.38 3.38 3.36 IGATIO 3.33 3.33 3.33 3.33 3.31 3.31 3.31 3.31 3.32 3.39 3.29 3.29 3.29 3.28 3.29 3.25 3.26 3.26 3.26 3.26 3.26 3.26 3.27 3.27 3.27 3.26 3.26 3.26 3.27 3.27 3.27 3.26 3.26 3.27	3.29
130700 131301 100318 100318 131337 133403 124728 123324 106947 116717 102794 117503 11220 106308 130894 120039 131428 13234 113285 132134 118964 127621 135149 121347 105754 121327 111204 120949 130024 125005 121067 120996	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105 W92548 U17838 T66830 AA232648 AA242904 N93330 AI218205 U40002 Z41835 AA055404 AA405181 AA302657 AA404286 N68295 AA397830 U15197 T61449 AA398662 AA398281	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.79363 Hs.173334 Hs.44286 Hs.25703 Hs.25703 Hs.26719 Hs.182712 Hs.87068 Hs.40637 Hs.54937 Hs.116204 Hs.95351 Hs.97972 Hs.192028 Hs.193953 Hs.173125 Hs.192028 Hs.173125 Hs.37982 Hs.192028 Hs.173125 Hs.37982 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.1937810 Hs.241560 Hs.193727	H.saplens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs ESTS ESTS ESTS ESTS ESTS ESTS PR domain-containing protein 1 ESTs Leukocyte tyrosine kinase ESTs PR domain containing 2; with ZNF domain ESTs ESTs proline-rich Gla (G-carboxyglutamic acid Homo sapiens clone 24722 unknown mRNA; ESTs Ilpase; hormone-sensitive ESTs ESTs; Weakly similar to IIII ALU SUBFAMI ESTs ESTs ESTS ESTS ESTS ESTS ESTS ESTS	3.46 3.43 3.43 3.43 3.43 3.43 3.42 3.42 3.41 3.38 3.38 3.38 3.38 3.38 3.31 3.33 3.33	3.29
130700 131301 100318 100318 131337 133403 124728 123324 106947 116717 102794 117503 11220 106308 130894 120039 131428 13234 113285 132134 118964 127621 135149 121347 105754 121327 111204 120949 130024 125005 121067 120996	D55696 T17386 HG4018-HT X94612 AA228116 X68688 R16231 AA488881 AA496932 AA496685 F11065 U88629 N31963 R50295 AA441792 AA436186 D16105 W92548 U17838 T66830 AA232648 AA242904 N93330 AI218205 U40002 Z41835 AA05181 AA302657 AA404286 N68295 AA397830 U15197 T61449 AA398662	Hs.21432 Hs.18069 Hs.164501 4288 Hs.41749 Hs.170204 Hs.72991 Hs.105218 Hs.105399 Hs.37936 Hs.79363 Hs.79363 Hs.25703 Hs.25703 Hs.25703 Hs.2662 Hs.26719 Hs.182712 Hs.82712 Hs.94985 Hs.26719 Hs.182712 Hs.182712 Hs.95351 Hs.27810 Hs.95351 Hs.27810 Hs.95351 Hs.27810 Hs.193727 Hs.192028 Hs.173125 Hs.37982 Hs.193727 Hs.193732 Hs.193727 Hs.193727 Hs.193727 Hs.193727	H.saplens mRNA for SEX gene protease; cysteine; 1 (legumain) ESTs Opioid-Binding Cell Adhesion Molecule protein kinase; cGMP-dependent; type II KIAA0551 protein zinc finger protein 33b (KOX 31) Homo sapiens ctone 23950 mRNA sequence EST KIAA0809 protein suppressor of variegation 3-9 (Drosophil ESTs ELL-RELATED RNA POLYMERASE II; ELON ESTs ESTS ESTS ESTS ESTS ESTS ESTS PR domain-containing protein 1 ESTs Leukocyte tyrosine kinase ESTs PR domain containing 2; with ZNF domain ESTs ESTs proline-rich Gla (G-carboxyglutamic acid Homo sapiens clone 24722 unknown mRNA; ESTs Ilpase; hormone-sensitive ESTs ESTs; Weakly similar to IIII ALU SUBFAMI ESTs ESTs ESTS ESTS ESTS ESTS ESTS ESTS	3.46 3.43 3.43 3.43 3.43 3.42 3.41 3.39 3.38 3.38 3.36 IGATIO 3.33 3.33 3.33 3.33 3.31 3.31 3.31 3.31 3.32 3.39 3.29 3.29 3.29 3.28 3.29 3.29 3.28 3.29 3.22 3.25 3.26 3.26 3.26 3.26 3.26 3.26 3.27 3.27 3.27 3.27 3.26 3.26 3.27	3.29

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	U40490 L40399	Hs.18136	nicotinamide nucleotide transhydrogenase	3.23 3.22	
		Hs.29383	hypothetical protein ESTs	3.22	
	HG4194-H		Sodium/Hydrogen Exchanger 5	3.22	
	AA481072 AA070204	Hs.99743	ESTs zm68b3.s1 Stratagene neuroepithellum (#9	3.21 3.2	
		Hs.159265	Homo sapiens kruppel-related zinc finger	3.2	
133711	J04130	Hs.75703	small inducible cytokine A4 (homologous	3.2	
	R52145 W38053	Hs.25894	ESTs; Highly similar to hypothetical pro Accession not listed in Genbank	3.19 3.19	
122386	AA446221		F-box protein containing teucine-rich re	3.19	
	AA179161 W85707	Hs.73562 Hs.75936	ESTs erythrocyte membrane protein band 4.9 (d	3.19 3.18	
	AA491317	N3.7 3330	aa65c01.r1 NCL_CGAP_GCB1 Homo sapiens		3.18
	H62793	Hs.221892	ESTs	3.18	
	AA481404		translocase of inner mitochondrial membr ESTs	3.17 3.16	
121479	AA411911	Hs.98110	ESTs	3.16	
	T79868 U12897		hypothetical protein	3.16	
	X60382	Hs.5022 Hs.179729	imprinted in Prader-Willi syndrome collagen; type X; alpha 1 (Schmid metaph	3.16 3.15	
129654	AA019943	Hs.118463	H.sapiens mRNA for unknown liver orphan	3.15	
	N22360 U48224	Hs.43153	ESTs beaded filament structural protein 2; ph	3.15 3.14	
	X99459		adaptor-related protein complex 3; sigma	3.14	
		Hs.120244		3.14	
	U22963	Hs.97374 Hs.101840	major histocompatibility complex; class	3.13 3.13	
	R78565	Hs.138395	EST	3.13	
	T54342 R23146	Hs.222506 Hs.23466		3.13 3.13	
	R33616	Hs.24688	= - : -	3.12	
		Hs.71124		3.11	
	X75546 L00389	Hs.230 Hs.1361	fibromodulin cytochrome P450; subfamily I (aromatic c	3.11 3.11	
107927	AA028915	Hs.237709	EST	3.11	
	H94949 H81181		trophinin-assisting protein (tastin) ESTs; Weakly similar to unknown [S.cerev	3.1 3.1	
	L35546	Hs.89709		3.1	
	R72293	Hs.6179	Homo saplens mRNA; cDNA DKFZp586K232		3.1
	AA343881 AA211419	MS.209001	sudD (suppressor of bimD6; Aspergillus n small inducible cytokine A5 (RANTES)	3.09 3.09	
131594	H29723	Hs.29261	ESTs; Weakly similar to serine protease	3.08	
	AA431320 Y09912	Hs.9100 Hs.33102	ESTs transcription factor AP-2 beta (activati	3.08 3.08	
	H57330	Hs.37430	EST	3.07	
		Hs.187946		3.06	
	H91819 AA192638	Hs.10669	ESTs; Moderately similar to KIAA0400 [H. zq01h08.r1 Stratagene muscle 937209 Homo	3.06 3.05	
134327	AF006041	Hs.178743	death-associated protein 6	3.04	
103513 131243		Hs.24752	H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1	3.04 3.04	
		Hs.44021	ESTs	3.04	
		Hs.4552	Homo sapiens HRIHFB2157 mRNA; partial od		
	S67070 T86737	Hs.78846 Hs.193536	heat shock 27kD protein 2 ESTs	3.04 3.03	
130490	X57522	Hs.158164	ATP-binding cassette; sub-family B (MDR/	3.03	
	AA234141 HG862-HT8		katanin p80 (WD40-containing) subunit B Transition Protein 2	3.03 3.03	
122268	AA436855	Hs.178202	ESTs	3.02	
107425	W26719	Hs.30204	ESTs .	3.02	
	U19261 W90398	Hs.6147	TNF receptor-associated factor 1 KIAA1075 protein	3.02 3.02	
100973	J02888	Hs.73956	NAD(P)H menadione oxidoreductase 2; diox		
		Hs.28774		3.01	
	X13461	Hs.239600	phosphoinositide-3-kinase; catalytic; de calmodulin-like 3	3.01 3.01	
			tryptase; alpha	3	
112015 103036		Hs.23198 Hs.83169	matrix metalloproteinase 1 (interstitial	3 2.99	
100756	HG3565-HT		Zinc Finger Protein (Gb:M88357)	2.99	
103425		Hs.138746	H.sapiens mRNA for Ptg-11 protein	2.99	
118291	N63076 H15229	113.130740	ym30g04.r1 Soares infant brain 1NiB Homo	2.98	
		U- 2000	repetitive element;, mRNA sequence.	2.98	
1013/1	M13232	Hs.36989	coagulation factor VII (serum prothrombi	2.98	

	X15675	Hs.93174	Human endogenous retrovirus pHE.1 (ERV9)		
	AA400138		ESTs	2.97	
	T12559 AA253458	Hs.221382 Hs.91299		2.96 2.96	
	AA084394	NS.31233	postmeiotic segregation increased 2-like zn05g10.s1 Stratagene hNT neuron (#93723		
	R16153	Hs.128740	ESTs; Highly similar to DNb-5 [H.sapiens	2.95	
100898	HG4638-HT	T5050	Spliceosomal Protein Sap 49	2.95	
129370	AA287879	Hs.110796	ESTs; Moderately similar to GTP-binding	2.94	
	C02386	Hs.107139		2.94	
	M96233	Hs.82891	glutathlone S-transferase M4	2.94	
	N29724 Z19585	Uo 75774	gamma2-adaptin thrombospondin 4	2.93	
	AA025630	Hs.75774 Hs.17801	ESTs; Moderately similar to serine/proli	2.93 2.93	
	T99639	Hs.91142	KH-type splicing regulatory protein (FUS	2.92	
	H30258	Hs.37165	collagen; type IX; alpha 2	2.92	
	AA082546	Hs.48516	ESTs	2.92	
	AA428350		ESTs	2.92	
	AA429807			2.91	
	AA135492 S72043	Hs.6318 Hs.73133	ESTs; Highly similar to peroxisomal shor	2.91	
	R22035	Hs.23331	metallothioneth 3 (growth inhibitory fac ESTs	2.91 2.91	
	F12681	Hs.205300		2.9	
	U49260	Hs.3828	mevalonate (diphospho) decarboxylase	2.9	
135358	C21431	Hs.99486	ESTs; Weakly similar to aratar1 [H.sapie	2.9	
	AA113287	Hs.65905	ESTs; Weakly similar to PTB-ASSOCIATED S		
	U20230	11. 00700	Human guanyl cyclase C gene, partial cds	2.89	
	AA431787 U06088		EST	2.89	
	AA410645		galactosamine (N-acetyl)-6-sulfate sulfa	2.89 2.88	
	T15817		nitric oxide synthase 2A (inducible; hep	2.88	
	N73717	Hs.161526		2.88	
129518	AA369807	Hs.112238	ESTs	2.88	
	R74309	Hs.44499	small EDRK-rich factor 2	2.87	
	U57971		ATPase; Ca++ transporting; plasma membra		
	H30751	Hs.182859		2.87	2 07
	HG3731-HT M13299		Immunoglobulin Heavy Chain, Vdjrc Regions (blue cone pigment	2.86	2.87
	M21574	Hs.74615		2.86	
	W37833	Hs.55563	ESTs	2.86	
	AA190515		zp85d12.r1 Stratagene HeLa cell s3 93721	2.86	
	X53742	Hs.79732	fibulin 1	2.86	
	AI339609		potassium voltage-gated channel; lsk-rel	2.86	
	AA620782		NADH dehydrogenase (ubiquinone) Fe-S pro ESTs	2.85	
	N47317	Hs.141858	=	2.85	
	F04143		Homo sapiens clone 23856 unknown mRNA;		2.85
			NOT3 (negative regulator of transcriptio	2.84	
	U17977		HSU17977 Humn fibroblast cDNA H sapiens	2.84	
	AA401401		PET112 (yeast homolog)-like	2.84	
	X74795	Hs.77171	minichromosome maintenance deficient (S.	2.84	
	W38001 HG2228-H1	2205	Accession not listed in Genbank Crystallin, Beta B	2.83 2.83	
	AA236476		ESTs; Weakly similar to transmembrane pr	2.83	
	Al468598		ESTs	2.83	
	AA029073	Hs.105685	ESTs	2.83	
	W38041		Accession not listed in Genbank	2.82	
	N31224		melanoma adhesion molecule	2.82	
126559	RIDANA	MC 1/II/K4	tumor protein 53-binding protein; 1	2.82	
440402				2 02	
	N59287	Hs.48361	EST	2.82	
101298	N59287 L40387	Hs.48361 Hs.118633	EST 2'-5'oligoadenylate synthetase-like	2.81	
101298 131830	N59287	Hs.48361	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs		
101298 131830 124173	N59287 L40387 U33054	Hs.48361 Hs.118633 Hs.32959 Hs.107619	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds	2.81 2.81	
101298 131830 124173 102295 129719	N59287 L40387 U33054 H41281 U32581 N66396	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766	EST 2-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [2.81 2.81 2.81 2.81 2.81	
101298 131830 124173 102295 129719 126573	N59287 L40387 U33054 H41281 U32581 N66396 AA482023	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5	2.81 2.81 2.81 2.81 2.81 2.81	
101298 131830 124173 102295 129719 126573 125477	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaporin 3	2.81 2.81 2.81 2.81 2.81	
101298 131830 124173 102295 129719 126573 125477	N59287 L40387 U33054 H41281 U32581 N66396 AA482023	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaporin 3 ESTs; Weakly similar to contains similar	2.81 2.81 2.81 2.81 2.81 2.81 2.81	
101298 131830 124173 102295 129719 126573 125477 106492	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642 Hs.7922	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial co's ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaporin 3 ESTs; Weakly similar to contains similar p19; an RNA polymerase II elongation fa	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.81	
101298 131830 124173 102295 129719 126573 125477 106492	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaporin 3 ESTs; Weakly similar to contains similar	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.81	
101298 131830 124173 102295 129719 126573 125477 106492 132881 114733 104618	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896 T86118 AA133778 AA001611	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642 Hs.7922 Hs.58875 Hs.95734 Hs.186494	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaporin 3 ESTs; Weakly similar to contains similar p19; an RNA polymerase II elongation fa ESTs ESTs ESTs	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.8 2.8 2.79 2.79	
101298 131830 124173 102295 129719 126573 125477 106492 132881 114733 104618 134137	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896 T86118 AA133778 AA001611 F10045	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642 Hs.7922 Hs.58875 Hs.95734 Hs.186494 Hs.79347	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-65kDa-associated protein 5 aquaporin 3 ESTs; Weakly similar to contains similar p19; an RNA polymerase II elongation fa ESTs ESTs ESTs ESTs KIAA0211 gene product	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.8 2.8 2.8 2.79 2.79 2.79	
101298 131830 124173 102295 129719 126573 125477 106492 132881 114733 104618 134137 133212	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896 T86118 AA133778 AA001611 F10045 U82979	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642 Hs.7922 Hs.58875 Hs.95734 Hs.186494 Hs.79347 Hs.67846	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cos ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaportn 3 ESTs; Weakly similar to contains similar p19; an RNA polymerase II elongation fa ESTs ESTs ESTs ESTs KIAA0211 gene product leutocyte to-like receptor; subfamily B	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.8 2.8 2.79 2.79 2.79 2.79 2.79	270
101298 131830 124173 102295 129719 126573 125477 106492 132881 114733 104618 134137 133212 100882	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896 T86118 AA133778 AA001611 F10045 U82979 HG4460-HT	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642 Hs.7922 Hs.58875 Hs.95734 Hs.186494 Hs.79347 Hs.67846	EST 2-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cds ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaporin 3 ESTs; Weakly similar to contains similar p19; an RNA polymerase II elongation fa ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.8 2.79 2.79 2.79 2.79 2.79 2.78 36b1_23564)	2.78
101298 131830 124173 102295 129719 126573 125477 106492 132881 114733 114733 114733 134137 133212 100882 104756	N59287 L40387 U33054 H41281 U32581 N66396 AA482023 AI270093 AA451896 T86118 AA133778 AA001611 F10045 U82979	Hs.48361 Hs.118633 Hs.32959 Hs.107619 Hs.167766 Hs.155218 Hs.234642 Hs.7922 Hs.58875 Hs.95734 Hs.186494 Hs.79347 Hs.67846 4729 Hs.15813	EST 2'-5'oligoadenylate synthetase-like G protein-coupled receptor kinase 2 (Dro ESTs Homo sapiens KIAA0421 mRNA; partial cos ESTs; Moderately similar to Pro-a2(XI) [E1B-55kDa-associated protein 5 aquaportn 3 ESTs; Weakly similar to contains similar p19; an RNA polymerase II elongation fa ESTs ESTs ESTs ESTs KIAA0211 gene product leutocyte to-like receptor; subfamily B	2.81 2.81 2.81 2.81 2.81 2.81 2.81 2.8 2.8 2.79 2.79 2.79 2.79 2.79	2.78

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120824 AA347548 Hs.96876 ESTs
100684 HG3107-HT3283
                             Plasma Membrane Calcium Pumo Homca2a
                                                                     2.78
121789 AA423970 Hs.178111 ESTs
                                                                     2.78
101647 M59941
                  Hs.118200 colony stimulating factor 2 receptor, be
                                                                     2.78
113722 T97957
                  Hs.202948 ESTs; Wealty similar to alternatively sp
                                                                     2.77
115107 AA256371 Hs.186645 ESTs
                                                                     2.77
111464 R05518
                  Hs.19521 ESTs
                                                                     2.77
108446 AA079120
                             zm95e1.s1 Stratagene colon HT29 (#937221
                                                                     2.77
123921 AA621329 Hs.250671
                            Hu DNA seg frm clone 1163J1 on chr 22g13
                             prot (similar to mouse Celsr1; rat MEGF
                                                                     2.77
134445 M59488
                  Hs.83384
                             $100 calcium-binding protein; beta (neur
                                                                     2.76
114132 Z38688
                  Hs.24192
                             FST<sub>8</sub>
                                                                     2.76
120500 AA256430 Hs.132525
                            ESTs
                                                                     2.76
101860 M95610
                  Hs.37165
                             collagen; type IX; alpha 2
                                                                     2.76
134430 H52105
                  Hs.8309
                             KIAA0747 protein
                                                                     2.76
124152 H27216
                  Hs.107635 ESTs
                                                                     2.76
132268 AA058833 Hs.23445
                             ESTs; Weakly smlr to similar to M. muscu
                                                                     2.76
116257 AA481493 Hs.88537
                             ESTs
                                                                     2.76
102438 U46570
                  Hs.7733
                             tetratricopeptide repeat domain 1
                                                                     2.75
122393 AA446334 Hs.99064
                             ESTs
                                                                     2.75
107653 AA010210 Hs.47041
                             ESTs
                                                                     2.75
123674 AA609473 Hs.105187
                            ESTs; Moderately similar to kinesin like
                                                                     2.75
129858 T66906
                  Hs.12970
                            ESTs
                                                                     2.75
130117 U06641
                  Hs.150207 UDP glycosyltransferase 2 family; polype
                                                                     2.75
133464 M13982
                  Hs.73917
                            Interleukin 4
                                                                     2.75
127039 AA233366 Hs.256491 ESTs
                                                                     2.74
128318 AA418202 Hs.13810 ESTs
                                                                     2.74
123363 AA504818 Hs.171279
                            ESTs
                                                                     2.74
127654 AA649249 Hs.75640 natriuretic peptide precursor A
                                                                     2.74
                            glycoprotein lb (platelet); beta polypep
132067 L20860
                  Hs.178382
                                                                     2.74
125664 AA948418 Hs.25744 ESTs; Weakly similar to Ydr412wp [S.cere
                                                                     2.73
132354 L05187
                  Hs.211913 small proline-rich protein 1A
                                                                     2.73
101568 M33764
                  Hs.75212 omithine decarboxylase 1
                                                                     2.73
101438 M20777
                  Hs.159263 Homo sapiens; alpha-2 (VI) collagen
                                                                     2.73
116233 AA479082 Hs.61142 ESTs
                                                                     2.73
122194 AA435882 Hs.97531
                            ESTs
                                                                     2.72
113995 W88466
                  Hs.22010
                            ESTs
                                                                     2.72
124251 H68286
                  Hs.107924
                            ESTs
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120583 AA281304
                 Hs.78614
                            complement component 1; a subcomponent b 2.71
                  Hs.234216 Human 40871 mRNA partial sequence
134958 U72507
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                  Hs.100058 dihydropyrimidinase-like 4
124280 H85835
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130113 M64673
                  Hs.1499
                            heat shock transcription factor 1
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106588 AA456612
                 Hs.25682
                             ESTs; Weakly smir to PHOSPHATIDYLETHANOL
132023 F01927
                  Hs.3743
                             ESTs; Weakly similar to proline-rich pro
                                                                     2.7
112284 R53558
                  Hs.26052
                            ESTs
                                                                     2.7
107897 AA026240
                 Hs.61387
                            ESTs
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122610 AA453598 Hs.99336
                            ESTs
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119070 R27788
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                             ESTs
                                                                     2.7
103491 Y08836
                             Homo sapiens mRNA for HRX-like protein
                                                                     2.7
108225 AA058843 Hs.161620 EST
                                                                     2.7
105829 AA398290 Hs.21965 ESTs
                                                                     2 69
                 Hs.145234 ESTs
127749 Al251757
                                                                     2.69
128428 Al185718
                 Hs.143900 ESTs
                                                                     2.69
108409 AA075578
                             zm88h3.s1 Stratagene ovarian cancer (#93
                                                                     2.69
                 Hs.103833
                            ESTs; Weakly similar to predicted using
114739 AA134923
                                                                     2.68
                  Hs.135
128821 D87002
                            multiple UniGene matches
                                                                     2.68
                  Hs.8961
                             ESTs
107412 W26105
                                                                     2.68
                  Hs.194387
117012 H85893
                            ESTs; Weakly similar to IIII ALU SUBFAMI
                                                                     2.68
135262 AA416551
                 Hs.9732
                            ESTs
                                                                     2.68
105367 AA236397
                 Hs.20304
                            ESTs
                                                                     2.68
                  Hs.89576
134771 L13939
                            adaptor-related protein complex 1; beta
                                                                     2.68
                 Hs.25549
105036 AA128617
                            ESTs
                                                                     2.68
125093 T92930
                  Hs.186750
                            ESTs
                                                                     2.68
                  Hs.90677
                            ESTs; Highly similar to CGI-82 protein [
119340 T61899
                                                                     2.67
                  Hs.53066
132603 H62900
                            hsp70-interacting protein
                                                                     2.67
                  Hs.184548 ESTs
113733 T98386
                                                                     2.67
123564 AA608902 Hs.112612 ESTs
                                                                     2.66
116059 AA454165
                 Hs.53455
                            ESTs
                                                                     2.66
                  Hs.29852
125803 R79373
                            ESTs
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123012 AA479962 Hs.139636
                            EST
                                                                     2.66
106080 AA418046 Hs.35124
                            EST<sub>8</sub>
                                                                     2.66
                  Hs.102267
128809 T59668
                                                                     266
                            lysyl oxidase
104354 H08988
                  Hs.113759
                            ESTS
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107068 AA609028
                            EST<sub>8</sub>
                 Hs.8032
                                                                     2.65
101418 M17754
                 Hs.1276
                            BN51 (BHK21) temperature sensitivity com
                                                                     2.65
135157 AA460138 Hs.95582 SRY (sex-determining region Y)-box 20
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2.71

2.65

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123312 AA496258 Hs.99601
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130034 C00350
                  Hs.14454
                             chromosome 2 open reading frame 1
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103897 AA248870 Hs.55058
                                                                     2.65
117771 N47961
                  Hs.46794
                                                                     2.65
                             ESTs
109980 H09529
                  Hs.98693
                             DKFZP586J0917 protein
                                                                     2.64
121966 AA429653 Hs.98616
                                                                     2.64
                             EST
114233 Z39652
                  Hs.27457
                             ESTs
                                                                     2.64
129594 R70379
                  Hs.115396 Human germline IgD chain gene: C-region:
                                                                     2.63
102319 U34587
                             corticotropin releasing hormone receptor
                  Hs.66578
                                                                     2.63
111700 R22212
                  Hs.23361
                             ESTs
                                                                     2.63
127365 AA001628 Hs.74335
                             heat shock 90kD protein 1; beta
                                                                     2.63
104205 AA496240 Hs.17270
                             DKFZP434C211 protein
                                                                     2.63
124559 N66223
                  Hs.135928
                             ESTs; Weakly similar to !!!! ALU SUBFAMI
                                                                     2.63
106351 AA442772 Hs. 191987 ESTs; Weakly similar to !!!! ALU SUBFAMI
                                                                     263
121903 AA427605 Hs.258742 myosin-binding protein C; cardiac
                                                                     2.62
116442 AA620310 Hs.184343 ESTs; Weakly similar to KIAA0585 protein
                                                                     2.62
127041 F06090
                             HSCOWG031 normalized Infant brain cDNA H 2.62
132860 U93049
                  Hs.58435 FYN-binding protein (FYB-120/130)
                                                                     2.62
                  Hs.180069 nuclear respiratory factor 1
131591
        L22454
                                                                     2.61
118118 N56901
                  Hs.47995
                             ESTs
                                                                     2.61
134809 X52611
                  Hs.18387
                             transcription factor AP-2 alpha (activat
                                                                     2.61
117706 N45091
                  Hs.46472
                             ESTs
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127488 AA312179 Hs.178617
                             ESTs; Weakly similar to CGI-82 protein [
                                                                     2.61
114891 AA235984 Hs.87469
                            ESTs
                                                                     2.6
116426 AA609668 Hs.71657
                             ESTs
                                                                     2.6
132589 AA432197
                  Hs.5260
                             ESTs; Weakly similar to CGI-08 protein [
                                                                     2.6
128410 AA452788
                             zx39g11.r1 Soares_total_fetus_Nb2HF8_9w
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106081 AA418394 Hs.25354
                             ESTs
                                                                     2.6
129919 R02003
                  Hs.191208 ESTs; Weakly similar to weak similarity
                                                                     2.59
124672 R00307
                  Hs.188504 ESTs
                                                                     2.59
122758 AA459013 Hs.99742 X-ray repair complementing defective rep
                                                                     2.59
125656 AA040118 Hs.78687
                             neutral sphingomyelinase (N-SMase) activ
                                                                     2.59
130052 J00220
                  Hs.145288 Human ig active epsiton1 5' UT; V-D-J re
                                                                     2.59
134878 U28055
                  Hs.250826 macrophage stimulating; pseudogene 9
                                                                     2.59
131908 L05624
                  Hs.3446
                             mitogen-activated protein kinase kinase
                                                                     2.59
126470 AA843339
                  Hs.193168 ESTs; Weakly similar to CGI-52 protein f
                                                                     2.59
132353 M31651
                  Hs.46319 sex hormone-binding globulin
                                                                     2.58
119588 W44559
                  Hs.142525
                             ESTs
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131757 D17532
                             DEAD/H (Asp-Glu-Ala-Asp/His) box polypep
                  Hs.316
                                                                    2.58
118114 N56875
                  Hs.143212 cystatin F (leukocystatin)
                                                                     2.58
128200 Al279952
                  Hs.158037 ESTs; Weakly similar to transcription re
                                                                     2.58
131208 C14586
                  Hs.24220
                             Homo sapiens mRNA; cDNA DKFZp566M051 (fr
124721 R11131
                  Hs.154966
                             ESTs
                                                                     2.57
                             Homo saplens mRNA for KIAA0842 protein;
108706 AA121820
                                                                     2.57
118831 N79592
                  Hs.50838
                             ESTs
                                                                     2.57
115708 AA412212 Hs.44033
                             ESTs
                                                                     2.57
                  Hs.22595
107233 D59322
                                                                     2.57
                             ESTs
129559 AA234945 Hs.11360
                             ESTs
                                                                     2.57
126953 AA743849 Hs.127286
                             ESTs
                                                                     2.56
108165 AA055221 Hs.63168
                                                                     2.56
                             ESTs
104069 AA401547 Hs.172694 ESTs
                                                                     2.56
112146 R46512
                  Hs.25374 ESTs
                                                                     2.56
                             ESTs; Highly similar to KIAA0838 protein
108384 AA074891 Hs.124917
                                                                     2.56
131779 R49047
                  Hs.179779
                             ribosomal protein L37
                                                                     2.56
111829 R36070
                  Hs.25079
                            EST
                                                                     2.55
103424 X97267
                  Hs.155975
                             protein tyrosine phosphatase; receptor t
                                                                     2.55
100133 D13118
                  Hs.80986
                             ATP synthase; H+ transporting; mitochond
                                                                     2.55
130208 AA620556 Hs.15250
                             peroxisomal D3:D2-enoyl-CoA isomerase
                                                                     2.55
124649 N92593
                  Hs.102907
                                                                     2.55
                             ESTs
106511 AA452865
                  Hs.206713
                             UDP-GatbetaGlcNAc beta 1;4- galactosylt
                                                                     2.55
128467 AA176446 Hs.180428
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                                                                     2.55
113524 T90072
                  Hs.15060
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                            ESTs
107821
       AA020991 Hs.172856
                             ESTs
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111900 R39044
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                  Hs.203237
                                                                     2.54
                             EST
132069 D87454
                  Hs.192966 KIAA0265 protein
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130660 T95262
                  Hs.17538
                                                                     2.54
                            ESTs
112983 T23443
                                                                     254
                  Hs.7111
                             ESTs
128279 H08885
                             yt88b08.r1 Soares infant brain 1NIB Homo
                                                                     2.54
106415 AA447994 Hs.29188
                                                                     2.53
                             ESTs
116741 H03268
                  Hs.181746 EST
                                                                     2.53
                             PCTAIRE protein kinase 3
                                                                     2.53
103148 X66362
                  Hs.2994
132336 AA342422 Hs.45073
                                                                     2.53
                            ESTs
129484 R92488
                  Hs.111989 ESTs
                                                                     2.53
                  Hs.31612 ESTs; Moderately similar to CAGH4 [H.sap
110169 H19696
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116880 H68380
                  Hs.144174 EST
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2.58

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133511 X04106
                  Hs.74451
                            calpain; small polypeptide
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126037 M85772
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                  Hs.6066
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132678 AA599876 Hs.5486
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                             ESTs
128751 AA442274 Hs.183176 ESTs
                                                                     2.52
133664 X86693
                 Hs.75445 hevin
                                                                     2.52
126977 AA309665
                             EST180547 Jurkat T-cells V Homo saplens
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120597 AA291522 Hs.97250
                                                                     2.52
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128571 AA416619 Hs.101661 ESTs
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104422 H86858
                  Hs.132909 ESTs
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122372 AA446008 Hs.99044
                                                                     2.52
                            EST
112154 R46769
                  Hs.25388
                             ESTs
                                                                     2.52
126900 R16034
                  Hs.12701
                             ESTs; Highly similar to plasmolipin [H.s
                                                                     2.51
115000 AA251342 Hs.144584 ESTs
                                                                     2.51
110632 H72344
                  Hs.171635 ESTs
                                                                     2.51
129154 N23673
                  Hs.108969 mannosidase; alpha; class 2B; member 1
                                                                     2.51
107440 W28069
                  Hs.251993 ESTs; Weakly similar to similar to zinc
                                                                     2.51
105694 AA287109 Hs.37883
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                            ESTs
106249 AA430388 Hs.13144
                             ESTs; Weakly similar to ORF YGR038w [S.c
                                                                     2.51
134462 U11037
                  Hs.83620
                            sel-1 (suppressor of lin-12; C.elegans)-
                                                                     2.51
                  Hs.105806 granulysin
101800 M85276
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                            Homo saplens mRNA; cDNA DKFZp564G212 (fr
119884 W81606
                  Hs.58662
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110289 H29829
                  Hs.31524
                             ESTs
                                                                     251
125506 H54273
                  Hs.154073 UDP-galactose transporter related
                                                                     2.51
102954 X15393
                  Hs.2813
                            motilin
                                                                     2.51
127851 AI469331
                  Hs.130497 ESTs: Weakly similar to CHLORIDE CONDUCT
                                                                                     2.5
126179 Al191445
                  Hs.143855 ESTs; Highly similar to IROQUOIS-CLASS H 2.5
129443 W69967
                  Hs.111497 ESTs; Moderately similar to neuronal pro
104480 N41486
                  Hs.99654 protein-O-mannosyltransferase 1
115580 AA398695
                  Hs.144339 Hu DNA seg frm clone 495O10 on chr 6q26-
                                                                                                                     2.5
                  Prot L37A) pseudogene; last exon of gene for a novel prot smir to worm E04F6.2; ESTs; STSs and GSSs
119595 W45031
                  Hs.55878 EST
                                                                     2.5
103336 X85785
                  Hs.183
                             Duffy blood group
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102792 U87964
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                            GTP binding protein 1
                                                                     2.49
129643 L27584
                  Hs.250712 calcium channel; voltage-dependent; beta
                                                                     2.49
                  Hs.84183
134503 U34880
                            diptheria toxin resistance protein regrd
                                                                     2.49
117245 N20989
                  Hs.42927
                            ESTs
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126888 H78745
                  Hs.1063
                             small nuclear ribonucleoprotein polypept
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135313 D63484
                  Hs.98508
                             KIAA0150 protein
                                                                     2.49
121186 AA400156
                 Hs.183294
                            ESTs
                                                                     2.49
130651 X04445
                  Hs.1734
                                                                     2 49
                            inhibin; alpha
134218 AA227480 Hs.80205
                             pim-2 oncogene
                                                                     2.49
104008 AA334630
                             EST38874 Embryo, 9 week Homo sapiens cDN
                                                                                     2.49
129705 X78706
                  Hs.12068
                             carnitine acetyltransferase
                                                                     2.49
127900 Al143912
                 Hs.121824 ESTs
                                                                     2.49
104609 R96417
                  Hs.107795 ESTs
                                                                     2 48
131628 U47292
                  Hs.2979
                             trefoil factor 2 (spasmolytic protein 1)
                                                                     2.48
132184 U51003
                  Hs.419
                             distaHess homeo box 2
                                                                     2.48
                             COP9 subunit 6 (MOV34 homolog: 34 kD)
                                                                     2.48
130450 U70735
                  Hs.15591
101679 M62628
                  Hs.163271
                            Human alpha-1 ig germline C-region membr
                                                                    2.48
120858 AA350147
                 Hs.96940
                            EST
                                                                     2.48
101012 J04444
                  Hs.697
                             cytochrome c-1
                                                                     2.48
                  Hs.33026
110453 H52133
                             ESTs; Weakly similar to similar to Enter
                                                                     2.48
133771
       M68891
                  Hs.760
                             GATA-binding protein 2
                                                                     2.48
                  Hs.37092
102944 X14445
                            fibroblast grwth fctr 3 (murine mammary
                                                                     2.48
113269 T65159
                  Hs.85044
                                                                     2.48
                            EST<sub>8</sub>
107069 AA609045 Hs.11759
                             ESTs; Weakly similar to !!!! ALU CLASS B
                                                                     2.48
100476 HG1019-HT1019
                             Serine Kinase Psk-H1
                                                                     2.47
106457 AA449718 Hs.27801
                             zinc finger protein 278
                                                                     2.47
                            heat shock 90kD protein 1; beta
105718 AA291629 Hs.74335
                                                                     2,47
104925 AA058683 Hs.5548
                             Homo sapiens done 23765 mRNA sequence 2.47
109913 H05527
                  Hs.31588
                             ESTs
                                                                     2.47
103412 X96698
                  Hs.42957
                             methyltransferase-like 1
                                                                     2.47
       U35246
                  Hs.226025
                             vacuolar protein sorting 45A (veast homo
                                                                     2.47
102326
116813 H49911
                  Hs.93102
                            ESTs
                                                                     2.47
123690 AA609566 Hs.112723 EST
                                                                     2.47
                  Hs.193118 ESTs
124714 R09486
                                                                     2.47
126154 Al004105
                 Hs.14232
                            ESTs; Moderately similar to KIAA0563 pro
                                                                     2.47
118880 N90168
                  Hs.54593
                                                                     2.47
                             EST
122274 AA437094 Hs.184456
                            ESTs: Weakly similar to !!!! ALU SUBFAMI
                                                                     2.46
129600 N78980
                  Hs.11567
                             ESTs; Moderately similar to unknown [H.s
                                                                     2.46
121356 AA405437
                 Hs.93581
                             Homo sapiens mRNA; cDNA DKFZp586E171 (fr
                                                                                     2.46
                                                                     2.46
                  Hs.8154
109560 F01778
                             ESTs
123342 AA504336
                 Hs.31659
                             thyroid hormone receptor-associated prof
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128032 AI150084
                 Hs.126678 ESTs
                                                                     2.46
129101 H90310
                 Hs.108665 ESTs; Weakly similar to CELL-CYCLE NUCLE
                                                                                     2.46
```

131185	M25753	Hs.23960	cyclin B1	2.46	
121451	AA411008	Hs.98085		2.46	
	D81932		HUM424C5B Hu fetal brain (TFujiwara) H s	2.46	
	AA723810	He 60517		2.45	
	AA609106				
				2.45	
	AA411756			2.45	
	W28902		The state of the s	2.45	
130446	X79510	Hs.155693	protein tyrosine phosphatase; non-recept	2.45	
	R88228		JM4 protein	2.45	
	N89670		ESTs; Weakly similar to Su(P) [D.melanog	2.45	
	AB002351	He 10587	KIAA0353 protein	2.45	
	AA453489			2.45	
	AA285064			2.45	
	F03866			2.44	
	AA485080			2.44	
114944	AA243172	Hs.87619	TED protein	2.44	
	AA293279			2.44	
	AA211300			2.44	
	Z47087		transcription elongation factor B (SIII)	2.44	
100020	24/00/			·	
	Z11737	Hs.2664		2.44	
	AA399226			2.43	
122812	AA461044	Hs.142980	EST	2.43	
135100	AA398926	Hs.251108	Homo sapiens mRNA; chromosome 1 specific	2.43	
	T86931		ESTs	2.43	
	M11507		AFFX control: transferrin receptor	2.43	
		He 107538	ESTs; Moderately similar to /prediction	2.43	
	AA011479	MS. 104/01		2.43	- 10
	F20186		HSPD05873 HM3 Homo sapiens cDNA clone		2.43
	T97111		ESTs; Weakly similar to Ydr324cp [S.cere	2.43	
122171	AA435750	Hs.98830	EST	2.43	
107601	AA004636	Hs.50223	ESTs	2.43	
119800	W73523	Hs 58314	ESTs	2.43	
			growth differentiation factor 11	2.42	
				2.42	
			ESTs; Highly similar to WASP interacting		
	Al308037		ESTs; Weakly similar to nucleoporin p62	2.42	
	AA417291			2.42	
			ESTs; Weakly similar to POLYPOSIS LOCUS	2.42	
114611	AA081374	Hs.108110	DKFZP547E2110 protein	2.42	
111595	R11492	Hs.191225	ESTs	2.42	
111671	R11492 R19368 H93005 X53414 R36634	He 229084	EST	2.42	
110687	H03005	He 177311	FSTe	2.42	
100007	VE2444	Un 444667	abaine abandete eminetranefemes /eve	2.42	
140070	A00414	NS. 144307	alanine-glyoxylate aminotransferase (oxa		
1190/0	K30034	ns.230034	E018	2.42	
			DKFZP434H204 protein	2.42	
			ESTs; Highly similar to PACAP type-3/VIP	2.42	
106380	AA446188	Hs.16614	ESTs	2.41	
121965	AA429652	Hs.104901	EST	2.41	
121604	AA416788	Hs.98259	EST	2.41	
	HG4490-H		Proline-Rich Protein Prb4, Allele	2.41	
	N48701	Hs.46523		2.41	
	W79525	Hs.58586		2.41	
	U48861	Hs.54397	cholinergic receptor, nicotinic; beta po	2.41	
			ESTs; Moderately similar to IIII ALU SUB	2.41	
			Homo saplens mRNA; cDNA DKFZp586L212		2.41
103381	X92715	Hs.3057	zinc finger protein 74 (Cos52)	2.41	
124837	R55630	Hs.233602	KIAA0596 protein	2.41	
129322	AA437153	Hs.110407	ESTs: Weakly similar to coded for by C.	2.4	
129291	AA281930	Hs.110099	core-binding factor, runt domain; alpha	2.4	
	R43803	Hs.78110	ESTs; Weakly similar to F17A9.2 (C.elega	2.4	
	Y00970	Hs.183088		2.4	
	N94447	Hs.55047	EST	2.4	
	R71427	Hs.9081	phenylalanyl-tRNA synthetase beta-subuni	2.4	
	D45654	Hs.65582	DKFZP586C1324 protein	2.4	
	D14539		myeloid/lymphold or mixed-lineage leukem	2.4	
118764	N74440	Hs.205264		2.4	
117437	N27645		yw5e3.s1 Weizmann Olfactory Epithelium H		
	1121 010		Ol almilanda applaina i 4 40 i 4 appli	2.4	
111651	NZIOTO		3. Similar to contains F1.13 F1 Lebent	2.4	
	R16733	Hs.20499	3' similar to contains L1.t3 L1 repetit ESTs	2.39	
1095R3	R16733	Hs.20499 Hs.26135	ESTs	2.39	
	R16733 F02322	Hs.26135	ESTs ESTs	2.39 2.39	
125969	R16733 F02322 R94247	Hs.26135 Hs.193879	ESTS ESTS	2.39 2.39 2.39	
125969 130647	R16733 F02322 R94247 AA457216	Hs.26135 Hs.193879 Hs.214190	ESTS ESTS ESTS interleukin enhancer binding factor 1	2.39 2.39 2.39 2.39	
125969 130647 113708	R16733 F02322 R94247 AA457216 T97467	Hs.26135 Hs.193879 Hs.214190 Hs.18065	ESTS ESTS ESTS interleukin enhancer blnding factor 1 ESTS	2.39 2.39 2.39 2.39 2.39	
125969 130647 113708 133469	R16733 F02322 R94247 AA457216 T97467 L03785	Hs.26135 Hs.193879 Hs.214190 Hs.18065 Hs.170482	ESTs ESTs ESTs interleukin enhancer binding factor 1 ESTs myosin; light polypeptide 5; regulatory	2.39 2.39 2.39 2.39 2.39 2.39 2.39	
125969 130647 113708 133469 118266	R16733 F02322 R94247 AA457216 T97467 L03785 N62837	Hs.26135 Hs.193879 Hs.214190 Hs.18065 Hs.170482 Hs.48647	ESTS ESTS ESTS interleukin enhancer binding factor 1 ESTs myosin; light polypeptide 5; regulatory immunoglobulin-like transcript 7	2.39 2.39 2.39 2.39 2.39 2.39 2.39 2.39	
125969 130647 113708 133469 118266 121656	R16733 F02322 R94247 AA457216 T97467 L03785 N62837 AA417248	Hs.26135 Hs.193879 Hs.214190 Hs.18065 Hs.170482 Hs.48647 Hs.98212	ESTS ESTS ESTS interleukin enhancer binding factor 1 ESTs myosin; light polypeptide 5; regulatory immunoglobulin-like transcript 7 ESTs	2.39 2.39 2.39 2.39 2.39 2.39 2.39 2.39	
125969 130647 113708 133469 118266 121656	R16733 F02322 R94247 AA457216 T97467 L03785 N62837	Hs.26135 Hs.193879 Hs.214190 Hs.18065 Hs.170482 Hs.48647	ESTS ESTS ESTS interleukin enhancer binding factor 1 ESTs myosin; light polypeptide 5; regulatory immunoglobulin-like transcript 7 ESTs	2.39 2.39 2.39 2.39 2.39 2.39 2.39 2.39	

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123708 AA609648 Hs.207767 EST
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107875 AA025308 Hs.61182 ESTs
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111711 R22891
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                 Hs.7093
                            EST8
131405 U79255
                 Hs.26468
                            amyloid beta (A4) precursor protein-bind
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127454 AA502957 Hs.153590 ESTs
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132341 AA448419 Hs.45209 ESTs
                                                                   238
133673 D87673
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                 Hs.75486
                            heat shock transcription factor 4
113213 T58607
                             ya94a02.s1 Stratagene placenta (#937225)
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106230 AA429356 Hs.12047
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                             ESTs
                 Hs.66103
116692 F09261
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                            ESTS
                            ESTs; Weakly similar to CH-TOG PROTEIN [ 2.38
126197 AA172284 Hs.103657
115966 AA446866 Hs.71371
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                            ESTs
132636 U65785
                 Hs.5417
                             oxygen regulated protein (150kD)
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109965 H09077
                  Hs.30895
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                             immunoglobulin mu binding protein 2
130203 L14754
                  Hs.1521
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131332 R50487
                  Hs.25717
                             ESTs
119105 R42357
                  Hs.91453
                            ESTs
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129253 W69316
                  Hs. 109778 ESTs; Weakly similar to similar to beta-
                                                                    2.37
113602 T92558
                  Hs.17036 ESTs
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118102 N55272
                  Hs.145798 ESTs
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                             Fibroblast Growth Factor Receptor K-Sam, Alt. Splice 3, K-Sam III
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100734 HG3432-F
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111533 R08548
                  Hs.251651 EST
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130813 U12259
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                            paired box gene 3 (Waardenburg syndrome
                                                                   2.37
119180 R80413
                  Hs.92520 ESTs
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109335 AA211443 Hs.86492 ESTs
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107386 U97698 Hs.159593 mucin 6; gastric
                                                                   2.36
122486 AA448328 Hs.115527 ESTs
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112997 T23548
                  Hs.167467 ESTs
                                                                    2.36
109674 F09051
                  Hs.21837 ESTs; Weakly similar to KIAA0927 protein
                                                                   2.36
128868 AA423827 Hs. 106730 hypothetical protein
                                                                    236
                            yg12g07.r1 Soares infant brain 1NIB H sa
127027 R17261
                                                                   2.36
123099 AA485931 Hs.79
                             aminoacylase 1
                                                                    2.36
                            ESTs: Weakly similar to ORF YKL201c IS.c
115716 AA416767 Hs.43498
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130830 D86982
                  Hs.20060
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109051 AA159920 Hs.72322
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                  Hs.151608 Homo saplens done 23622 mRNA sequence 2.36
130181 R39552
131114 R46233
                  Hs.23107 ESTs
123589 AA609047 Hs.188922 ESTs
                                                                    2.36
130872 U03891
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                                                                    2.36
                  Hs.2780
131962 H78550
                             jun D proto-oncogene
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                             neutrophil cytosolic factor 1 (47kD; chr
130502 M55067
                  Hs.1583
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121785 AA423883 Hs.142442 ESTs
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125405 T97171
                  Hs.121570 ESTs
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103682 AA000993
                                                                    2.35
                             ESTs
                 Hs.194816 stomatin-like protein 1
                                                                    2 35
125649 T77395
115452 AA285019 Hs.55263 ESTs; Highly similar to mitochondrial di
                                                                    2.35
129338 T56800
                 Hs.47274 Homo sapiens mRNA; cDNA DKFZp564B176 (fr
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106105 AA421268 Hs.149443 putative tumor suppressor 134770 R72079 Hs.89575 CD798 antigen (timmunoglobulin-associated
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119422 T99496
                  Hs.229598 EST
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                  Hs.30345 EST
109869 H02849
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134314 AA263032 Hs.81634 ATP synthase; H+ transporting; mitochond
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114989 AA251097 Hs.189119 ESTs
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122619 AA453755 Hs.191515 ESTs
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133129 AA428580 Hs.65551 ESTs
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128465 AA416762 Hs.100221 nuclear receptor subfamily 1; group H; m
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115636 AA402715 Hs.58389 ESTs
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130836 J05068
                  Hs.2012
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132385 Y10256
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107776 AA018820 Hs.221147 ESTs
109791 F10669
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124409 N33212
                  Hs.107197 ESTs
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131068 AA397916 Hs.22595 ESTs
                            ESTs; Weakly similar to CREB-binding pro
                                                                    2.34
121079 AA398719 Hs.14169
                 Hs.171835 ESTs; Weakly smir to PUT PRE-MRNA SPLICE
                                                                                   2.34
124662 N94340
133820 M13686
                  Hs.177582 surfactant; pulmonary-associated protein
129424 M55593
                  Hs.111301 matrix metalloproteinase 2 (gelatinase A
                                                                    2.34
                                                                    2.34
109066 AA161377 Hs.72404 EST
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                 Hs.181359 KIAA0151 gene product
100339 D63485
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100809 HG3991-HT4261
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120844 AA349417 Hs.96917
                            ESTs
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124927 R96146
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                             Homo sapiens clone 24940 mRNA sequence
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109779 F10527
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                  Hs.119251 ubiquinol-cytochrome c reductase core pr
101171 L16842
                  Hs.24048 ESTs; Weakly similar to FK506/rapamycin-
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110805 N26904
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125440 AI090982 Hs.31895
                             ESTs
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133159 AC000061 Hs.663
                            cystic fibrosis transmemb conductance re
                                                                    2.33
101829 M91368
                 Hs.129763 solute carrier family 8 (sodium/calcium
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126492 AA778565 Hs.142505 ESTs
                                                                    2.33
102774 U83303
                 Hs.164021 small inducible cytokine subfamily B (CX
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130480 N50809
                  Hs.15760 ESTs; Weakly similar to similar to Yeast
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126878 AI424759
                 Hs.238928 ESTs
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                                                                    2.32
117338 N23889
                 Hs.43466
                            ESTs
118662 N70877
                 Hs.13055
                            ESTs
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130354 AA416685 Hs.155001 UNC13 (C. elegans)-like
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106760 AA477330 Hs.12293
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119428 W02129
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                 Hs.5383
                            ESTs
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127998 AA854161 Hs.143585
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                            ESTs
132728 AA293334 Hs.5566
                            ESTs; Highly similar to RAS-RELATED PROT 2.32
120292 AA189116 Hs.96168
                                                                    2.32
                            ESTs
107598 AA004528 Hs.169444 ESTs
                                                                    2.32
128164 Al478174 Hs.144846 ESTs
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105753 AA299789 Hs.15277
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131256 AA262340 Hs.24907
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                            coronin; actin-binding protein; 2B
110891 N38863
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                 Hs.92530
116767 H13689
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100545 HG2147-HT2217
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125264 W88995
                            ESTs: Weakly similar to C15H9.5 [C.elega
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118387 N64579
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104335 D83847
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107464 W42944
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112304 R54798
                  Hs.26239
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134313 AA136100 Hs.6673
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116322 AA490900 Hs.58643
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111275 N70970
                 Hs.35006
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                            ESTs
100109 AJ000480 Hs.143513
                            phosphoprotein regulated by mitogenic pa
                                                                    2.31
                            ESTs
109338 AA211717 Hs.86507
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134432 AA053022 Hs.8312
                            ESTs
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                            Homo sapiens DNA from chr 19p13.2 cosmid
129649 AD000092 Hs.182628
                             EKLF; GCDH; CRTC; and RAD23A genes; gen
122623 AA453990 Hs.99248
                            ESTs
                                                                   2.31
112070 R43976
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127683 AA668123 Hs.134170 ESTs
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104920 AA057620 Hs.30807
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106064 AA417373 Hs.15898
                            ESTs
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106782 AA478487
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126709 AA028159 Hs.47234
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105129 AA158386 Hs.186476 ESTs
                                                                    2.3
105719 AA291644 Hs.36793
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                            ESTs
121698 AA418399 Hs.10351
                            KIAA0308 protein
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119069 R27619
                 Hs.231046 EST
                                                                    2.3
130388 U72515
                 Hs.189583 putative protein similar to nessy (Droso
                                                                    2.3
                            dynactin 1 (p150; Glued (Drosophila) hom
103444 X98801
                 Hs.74617
                            zm18g4.s1 Stratagene pancreas (#93728) H
114604 AA076128
                             3' similar to SW:RS1A_HUMAN P3927 4S RI 2.3
103878 AA227635 Hs.202588 ESTs
105828 AA398276 Hs.11962
                                                                    2.3
                            ESTs
119778 W72920
                 Hs.58244
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120401 AA234309 Hs.193011
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                            ESTs
116290 AA488691 Hs.57969
                            phenylalanine-tRNA synthetase
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130479 R44163
                 Hs.12457
                             Homo sapiens clone 23770 mRNA sequence
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104253 AF002672 Hs.152944
                            loss of heterozygosity; 11; chromosomal
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132615 H66367
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                                                                    2.29
121954 AA429598 Hs.98587
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101336 L49169
                 Hs.75678
                            FBJ murine osteosarcoma viral oncogene h
                                                                    2.29
127247 AA313802 Hs.6289
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                            growth factor receptor-bound protein 2
117300 N22565
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                            ESTs
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122229 AA436198 Hs.103902 ESTs
                                                                    2.29
                                                                    2.29
125106 T95766
                  Hs.189760 ESTs
128083 R16100
                  Hs.166476
                            ESTs
                                                                    2.29
131279 AA089853 Hs.25197
                            STIP1 homology and U-Box containing prot
                                                                    2.29
                 Hs.180919 inhibitor of DNA binding 2; dominant neg
                                                                    2.29
133838 M97796
111837 R36447
                                                                    2.29
                  Hs.24453
                            ESTs
111435 R01620
                                                                    2.29
                  Hs.19198
                            ESTs
                                                                    2.29
123613 AA609158 Hs.112656 EST
133560 AA256365 Hs.7486
                            protein expressed in thyroid
                                                                    2.29
                            ESTs; Weakly similar to dat2; ten:343; C
                                                                    2.29
122896 AA469952 Hs.97899
                                                                    2.29
113378 T80627
                 Hs.14757
                            ESTs
127174 AA293204 Hs.139352 ESTs
                                                                    2.29
                                                                    2.29
120153 Z39582
                Hs.65777 EST
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2.31

440744					
	R93080 AA044784	Hs.35035	ESTS	2.28	2.28
	F10665	Hs.4105 Hs.25031	Homo sapiens mRNA; cDNA DKFZp586A061 ESTs	2.28	2.20
	W04657	Hs.24248	ESTs	2.28	
	X13451		Hu mRNA for lymphocyte lineage-retroted	2.28	
	AA322034	•	EST24690 Cerebellum II Homo saplens cDN/	\2.28	
	N94706		Human Chromosome 16 BAC clone CIT987S		2.28
	M19508	11- 5007	Human myeloperoxidase gene, exons 1-4	2.28	
	AA386264 AA258813		Isocitrate dehydrogenase 2 (NADP+); mito	2.28 2.28	
	AA548559		ESTs ESTe	2.28	
	AA281936		ESTs	2.28	
	AA079667		zm93d1.s1 Stratagene ovarian oncr (#9372	2.28	
120685	AA291066	Hs.105099		2.28	
		Hs.191942		2.28	
112858		Hs.4454	ESTs	2.28	
	AA424826		EST	2.28 2.28	
	AA026150 Z38223	Hs.23735	ESTs potassium voltage-gated channel; subfami	2.28	
	M72885	Hs.95910	Human G0S2 protein gene; complete cds	2.27	
	X69819	Hs.99995	Intercellular adhesion molecule 3	2.27	
	W72720	Hs.194347		2.27	
128984	AA319615	Hs.238030	secretory carrier membrane protein 2	2.27	
	M29877	Hs.576	fucosidase; alpha-L- 1; tissue	2.27	
	AA436889		ESTs	2.27	
	H96850	Hs.89674	dolichyl-diphosphooligosaccharide-protei	2.27 2.27	
	X54871 T78141	Hs.77690	RAB5B; member RAS oncogene family ESTs	2.27	
_	R71976	Hs.161791	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.27	
	AA053586		ESTs	2.27	
111017	N53965	Hs.256327	ESTs	2.27	
		Hs.127121		2.27	
	Al421309		DKFZP586K0919 protein	2.26	
	AA025061		ESTs	2.26	
	AA437133 AA400378		ESTs ESTs	2.26 2.26	
	AA134824		ESTs	2.26	
	N68163	Hs.49455	EST	2.26	
440000					
110509	H56493	Hs.61960	ESTs; Moderately similar to HYPOTHETICAL	2.26	
114088	Z38280	Hs.26971	Human Chromosome 16 BAC clone CIT987S	K-2	2.26
114088 103225	Z38280 X74837	Hs.26971 Hs.2750	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1	K-2 2.26	2.26
114088 103225 125842	Z38280 X74837 AA746654	Hs.26971 Hs.2750 Hs.5181	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD	K-2 2.26 2.26	2.26
114088 103225 125842 104538	Z38280 X74837 AA746654 R25069	Hs.26971 Hs.2750 Hs.5181 Hs.175681	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs	K-2 2.26 2.26 2.26	2.26
114088 103225 125842 104538 130304	Z38280 X74837 AA746654 R25069 U09368	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39)	K-2 2.26 2.26	2.26
114088 103225 125842 104538 130304 120680	Z38280 X74837 AA746654 R25069 U09368	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs	K-2 2.26 2.26 2.26 2.26	2.26
114088 103225 125842 104538 130304 120680 124062 103289	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs cinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573 Hs.191324	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573 Hs.191324 Hs.101408	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573 Hs.191324 Hs.101408 Hs.111461	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase)	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694 AA192755	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573 Hs.191324 Hs.101408 Hs.111461 Hs.85840	Human Chromosome 16 BAC clone CIT987SI mannosidase; atpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens]	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221 109906	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694 AA192755 H05084	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs sinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103286 128555 129439 109221 109906 130540	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694 AA192755 H05084 U35234	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534	Human Chromosome 16 BAC clone CIT987SI mannosidase; atpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens]	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120662 103289 109286 128555 129439 109206 130540 122870 122870	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.1573 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t Spl-B transcription factor (Spl-1/PU.1 r EST	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 1045304 120680 124062 103289 10928 128555 129439 109221 109906 130540 122870 122870 122870	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.78223	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor 1 Spl-B transcription factor (Spi-1/PU.1 r EST N-acylaminoacyl-peptide hydrotase	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221 109906 130540 122870 120219 122021 121732	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.156205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.98330	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 12853 129439 109221 109906 130540 122870 122012 128021 128021 121732 107817	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175685 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.78223 Hs.98330 Hs.60847	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t SpI-B transcription factor (SpI-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 12855 129439 109221 109906 130540 122870 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219 1220219	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175685 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.78223 Hs.98330 Hs.60847 Hs.84232	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs care finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t SpI-B transcription factor (SpI-1/PU.1 r EST N-acylaminoacyl-peptide hydrotase ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109281 109221 109906 130540 122870 122870 122870 12217 121732 107617 101069 103065	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X58399	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175685 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.78223 Hs.98330 Hs.60847	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t SpI-B transcription factor (SpI-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109281 129555 129439 109221 109906 130540 122870 122870 122870 1207817 101065 118019	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.78223 Hs.98330 Hs.60847 Hs.68432 Hs.84232 Hs.84232 Hs.84232	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to 5tac [H.sapiens] ESTs; Highly similar to 6DP-mannose pyroprotein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs transcobalamin II; macrocytic anemia Human L2-9 transcript of unrearranged Im	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221 109906 130540 122870 120219 121732 107817 101069 103065 118019 122220 109161	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 A1001136 AA421047 AA020781 L02648 X58339 N52585 AA436011 AA179392	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.156205 Hs.97242 Hs.144524 Hs.191324 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.66045 Hs.84232 Hs.84232 Hs.84232 Hs.84232 Hs.84231 Hs.47517 Hs.73601	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs ESTs transcobalamin II; macrocytic anemia Human L2-9 transcript of unrearranged Im ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128535 129439 109221 109906 130540 122870 122021 128021 121732 107817 101069 103065 118019 122220 109161 1228699	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA4171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X58339 N52585 AA436011 AA479392 K03207	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175685 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.66045 Hs.84223 Hs.84221 Hs.84232 Hs.84231	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs ESTs transcobatamin II; macrocytic anemia Human L2-9 transcript of unrearranged Im ESTs ESTS ESTS ESTS	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 12855 129439 109221 109906 130540 122870 122021 122021 121732 107817 101069 103065 118019 122220 109161 128699 101914	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 U62739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X58399 N52585 AA436011 AA179392 K03207 S71824	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175685 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.92861 Hs.66045 Hs.78223 Hs.84232 Hs.84232 Hs.84232 Hs.84231 Hs.47517 Hs.98187 Hs.733001 Hs.103972 Hs.167988	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to stac [H.sapiens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t SpH-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs ESTs ESTs ESTs ESTS ESTS	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104532 130304 120680 124062 103289 109281 129555 129439 109221 109906 130540 122870 122870 1010695 118019 122220 109161 122220 109161 122697	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 N52585 AA436011 AA179392 K03207 S71824 U74667	Hs.26971 Hs.2750 Hs.5781 Hs.175681 Hs.154205 Hs.97242 Hs.16424 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.98330 Hs.66045 Hs.98330 Hs.60847 Hs.84232 Hs.84232 Hs.84232 Hs.98187 Hs.98187 Hs.98187 Hs.103972 Hs.103972 Hs.167988 Hs.6384	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs ESTs ESTs ESTS ESTS ESTS	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109285 12925 109201 12970 120219 12870 102019 12870 103065 118019 12220 109161 128699 101914 102697 11939	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X56399 N52585 AA436011 AA179392 K03207 S71824 U74667 W86753	Hs.26971 Hs.2750 Hs.5781 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.78223 Hs.98330 Hs.60847 Hs.84232 Hs.47517 Hs.98187 Hs.73601 Hs.103972 Hs.167988 Hs.6364 Hs.163984 Hs.6364 Hs.82407	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor 1 Spl-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs ESTS ESTS ESTS ESTS ESTS	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221 109906 130540 122870 120219 121732 107817 101069 103065 118019 122699 101914 102699 101914 102699 101939 127793	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 N52585 AA436011 AA179392 K03207 S71824 U74667	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.156205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.66045 Hs.84232 Hs.84232 Hs.84232 Hs.87517 Hs.73601 Hs.103972 Hs.103972 Hs.167988 Hs.6384 Hs.82407 Hs.824207 Hs.30445	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs ESTs ESTs ESTS ESTS ESTS	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109281 109906 130540 122870 122870 120219 128021 121732 107817 101069 118019 122220 109161 128697 119939 127793 104450 133096	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 L026	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.154205 Hs.97242 Hs.144524 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.96045 Hs.96847 Hs.86232 Hs.86384 Hs.98380 Hs.60847 Hs.84232 Hs.873601 Hs.103972 Hs.167988 Hs.6364 Hs.82407 Hs.82407 Hs.30445 Hs.103978 Hs.131053	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to stac [H.sapiens] ESTs; Highly similar to stac [H.sapiens] ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104580 120680 124062 103289 109281 109221 109306 130540 122870 122870 120219 128021 121732 107817 101065 118019 122220 109161 122220 109161 10220 109161 10220 109161 10220 109161 10220 109161 10220 109161 10220 1020 10220 10220 10220 10220 10220 10220 10220 10220 10220 10220 10	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA1972739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X56389 N52585 AA436011 AA179392 K03207 S71824 U74667 W86753 AI298835 L77564 AA136042 AA283893	Hs.26971 Hs.2750 Hs.5781 Hs.175681 Hs.15681 Hs.154205 Hs.97242 Hs.16424 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.98330 Hs.66045 Hs.98330 Hs.60847 Hs.84232 Hs.84232 Hs.84232 Hs.847517 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.98187 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978	Human Chromosome 16 BAC clone CIT987SI mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.sapiens] ESTs; Weakly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor t SpH-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs ESTs ESTs ESTS ESTS ESTS	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221 109906 130540 12220 121732 107817 101069 118019 122220 109161 128699 101914 102697 119939 127793 104450 133096 115416 117056	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 AA171694 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X58399 N52585 AA436011 AA179392 K03207 S78267 W86753 AI298835 L77564 AA283893 H90322	Hs.26971 Hs.2750 Hs.5781 Hs.175681 Hs.154205 Hs.97242 Hs.16424 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.78223 Hs.98330 Hs.60847 Hs.84232 Hs.84232 Hs.873601 Hs.73601 Hs.73601 Hs.163978 Hs.163984 Hs.82407 Hs.167988 Hs.6364 Hs.82407 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor 1 SpI-B transcription factor (SpI-1/PU.1 r EST N-acytaminoacyl-peptide hydrotase ESTs ESTs ESTs ESTs ESTs transcription factor of unrearranged im ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109286 128555 129439 109221 109906 130540 122270 120219 121732 107817 101069 103061 118019 122220 109161 128699 101914 102697 119939 127793 104450 133096 115598	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA197273 AA197273 AA192755 H05084 U35234 AA465158 Z41124 AI001136 AA421047 AA020781 L02648 X58399 N52585 AA436011 AA179392 K03207 S71824 U74667 W86753 AI298835 L77564 AA136042 AA283893 H90322 AA400129	Hs.26971 Hs.2750 Hs.5781 Hs.175681 Hs.15681 Hs.154205 Hs.97242 Hs.191324 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.66045 Hs.66045 Hs.66047 Hs.66047 Hs.64232 Hs.84232 Hs.84232 Hs.873601 Hs.73601 Hs.167988 Hs.6364 Hs.103972 Hs.167988 Hs.6364 Hs.103978 Hs.163866 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to GDP-mannose pyro protein tyrosine phosphatase; receptor 1 SpI-B transcription factor (SpI-1/PU.1 r EST N-acylaminoacyl-peptide hydrotase ESTs ESTs transcobalamin II; macrocytic anemia Human L2-9 transcript of unrearranged Im ESTs ESTs EST proline-rich protein BstNI subfamily 4 neural cell adhesion molecule 1 Tat interactive protein (60kD) ESTs ESTs; Weakly similar to transcription re serfine/threonine kinase 22B (spermiogene ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 122662 103289 109286 128555 109221 109906 130540 122870 120219 120219 121732 107817 101069 103065 118019 102220 109161 128699 101914 102697 119939 107450 115416 115598 115598 121267	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA192739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 A1001136 AA421047 AA020781 L02648 X58399 N52585 AA436011 AA179392 K03207 S71824 U74667 W86753 A1298835 L77564 AA136042 AA43893 H90322 AA400129 AA401397	Hs.26971 Hs.2750 Hs.5181 Hs.175681 Hs.175681 Hs.197242 Hs.144524 Hs.191324 Hs.191324 Hs.191324 Hs.191324 Hs.191324 Hs.192861 Hs.85840 Hs.28077 Hs.192861 Hs.66045 Hs.78223 Hs.84232 Hs.81221 Hs.47517 Hs.98187 Hs.73601 Hs.103972 Hs.167988 Hs.6384 Hs.82407 Hs.103972 Hs.167988 Hs.6384 Hs.82307 Hs.130978 Hs.131053 Hs.131053 Hs.131053 Hs.131053 Hs.141387 Hs.65735 Hs.165296	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Highly similar to 5DP-mannose pyro protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acytaminoacyl-peptide hydrolase ESTs ESTs transcobatamin II; macrocytic anemia Human L2-9 transcript of unrearranged Im ESTs ESTs EST proline-rich protein BstNI subfamily 4 neural cell adhesion molecule 1 Tat interactive protein (60kD) ESTs ESTs; Weakly similar to transcription re serine/threonine kinase 22B (spermiogene ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26
114088 103225 125842 104538 130304 120680 124062 103289 109221 109906 130540 122870 122870 122870 122870 120219 128021 121732 107817 101069 103065 118019 122220 109161 122697 119939 12773 104450 133096 115416 117056 115267 104778	Z38280 X74837 AA746654 R25069 U09368 AA290743 H00440 X80915 AA192739 AA171694 AA192755 H05084 U35234 AA465158 Z41124 A1001136 AA421047 AA020781 L02648 X58399 N52585 AA436011 AA179392 K03207 S71824 U74667 W86753 A1298835 L77564 AA136042 AA43893 H90322 AA400129 AA401397	Hs.26971 Hs.2750 Hs.5781 Hs.175681 Hs.15681 Hs.154205 Hs.97242 Hs.191324 Hs.191324 Hs.101408 Hs.111461 Hs.85840 Hs.28077 Hs.159534 Hs.192861 Hs.66045 Hs.66045 Hs.66045 Hs.66045 Hs.66047 Hs.66047 Hs.64232 Hs.84232 Hs.84232 Hs.873601 Hs.73601 Hs.167988 Hs.6364 Hs.103972 Hs.167988 Hs.6364 Hs.103978 Hs.163866 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978 Hs.103978	Human Chromosome 16 BAC clone CIT987S mannosidase; alpha; class 1A; member 1 proliferation-associated 2G4; 38kD ESTs zinc finger protein 140 (clone pHZ-39) ESTs ESTs; Weakly similar to signal transduce growth differentiation factor 5 (cartila ESTs branched chain aminotransferase 2; mitoc ceruloplasmin (ferroxidase) ESTs; Weakly similar to stac [H.saplens] ESTs; Weakly similar to 5DP-mannose pyroprotein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs ESTs transcription factor (spi-1/PU.1 r EST N-acylaminoacyl-peptide hydrolase ESTs ESTs transcription BstNI subfamily 4 neural cell adhesion molecule 1 Tat interactive protein (60kD) ESTs ESTs; Weakly similar to transcription reserine/threonine kinase 22B (spermiogene ESTs ESTs ESTs	K-2 2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.	2.26

	U88667		ATP-binding cassette; sub-family A (ABC1	2.24
	N70324	Hs.49840	ESTs	2.24
	X82240 Z48475	Hs.2484 Hs.89771	T-cell leukemia/lymphoma 1A glucokinase (hexokinase 4) regulatory pr	2.24 2.24
	AA171719	Hs.5233	eukaryotic translation initiation factor	2.24
	R32377	Hs.82240	syntaxin 3A	2.24
	N20300	Hs.218707		2.24
	AA621601	Hs.184446	ESTs; Weakly similar to small GTP-bindin	2.24
	M59916	Hs.77813	sphingomyelin phosphodiesterase 1; add	2.24
	M19483	Hs.25	ATP synthase; H+ transporting; mitochond	2.24
	W86196 AA504810	Hs.177384 Hs.139649		2.24 2.24
	AA621298	Hs.112967		2.24
	AA608792	Hs.112591		2.24
	T40560	Hs.221759		2.24
	U38268		Human cytochrome b pseudogene, partial c	2.24
	H53099		NADH dehydrogenase (ubiquinone) 1 alpha	2.24
	U18235		ATP-binding cassette; sub-family A (ABC1	2.24
	X76091 U52100	Hs.100007 Hs.29191		2.24 2.24
	AA206993	Hs.154145	epithelial membrane protein 2 guanine nucl binding protein (G protein)	2.23
	AA258379			2.23
	W84670	Hs.58518	EST	2.23
	N63837	Hs.40500	similar to S. cerevisiae RER1	2.23
	X61587	Hs.75082	ras homolog gene family; member G (rho G	2.23
	H17306	Hs.177229		2.23
	AA464043 U37359	Hs.26506 Hs.227297	ESTs; Weakly similar to NY-REN-45 antige	2.23 2.23
	AA411167	Hs.8734	melotic recombination (S. cerevisiae) 11 ESTs; Moderately similar to IIII ALU CLA	2.23
	AA452251	Hs.98669	ESTs	2.23
	U42031	Hs.7557	FK506-binding protein 5	2.23
132096	AA131410	Hs.3964	Homo sapiens clone 24877 mRNA sequence	
	H11746	Hs.31097	ESTs	2.23
	AA620293	Hs.112853		2.23
	X99350	Hs.93974	forkhead box J1	2.23
	AA055841 AA025001	Hs.154396 Hs.169452		2.22 2.22
	HG3992-H7		Cpg-Enriched Dna, Clone E35	2.22
	W93579	Hs.59478	EST EST	2.22
122775	AA459692	Hs.112143	ESTs	2.22
	H71482		ribosomal protein; large; P1	2.22
118617			ESTs; Moderately similar to IIII ALU SUB	2.22
	AI167814 AI279080	Hs.166664	ESTS; Moderately similar to IIII ALU CLA	2.22 2.22
	AA458644	Hs.27115	ESTs	2.22
	Y08409		thyroid hormone responsive SPOT14 (rat)	2.22
135008	AA173423	Hs.92918	ESTs; Weakly similar to R07G3.8 [C.elega	2.22
	H17333	Hs.159837		2.22
	Al393421	Hs.14032	ESTS	2.22
	H24359 AA489092	Hs.28733 Hs.177726	ESTs	2.22
131903	AA481723	Hs.3436	deleted in oral cancer (mouse; homolog)	2.22
	AA454616	Hs.90336	ATPase; H+ transporting; lysosomal (vacu	2.22
	AA448228	Hs.6468	ESTs	2.22
	AA037664	Hs.55067	ESTs; Weakly similar to T07F12.1 gene pr	2.22
	X64559	Hs.65424	tetranectin (plasminogen-binding protein	2.21
114263	Z40073	Hs.6045	ESTS	2.21
120010	R20148 U78551	Hs.193851	ESTs Homo sapiens galibladder mucin MUC5B mR	2.21 N
102773	U83192	Hs.23731	discs; large (Drosophila) homolog 4	2.21
119526	W38049		Accession not listed in Genbank	2.21
126844	AA299325		EST11903 Uterus tumor I Homo saplens cDN	2.21
105860	AA399251		ESTs; Wealdy similar to methyl-CpG bindi	2.21
126957	AA733145	Hs.194560		2.21
108959	AA150107	Hs.81810	ESTs	2.2
137663	AA423926 H02941	Hs.30318 Hs.8888	ESTs ESTs	2.2 2.2
104483	N42776	Hs.146233		2.2
123848	AA620773	Hs.221996		2.2
101623	M55905	Hs.75342	malic enzyme 2; NAD(+)-dependent; mitoch	2.2
120872	AA357993	Hs.96996	ESTs	2.2
135033	AA173241	Hs.93454	ESTs	2.2
122286	AA437259 AA235174	Hs.104944		2.2 2.2
100255	D38047	Hs.50250 Hs.78466	ESTs proteasome (prosome; macropain) 26S subu	
103263	X58234		translocase of inner mitochondrial membr	2.2

2.21

	R56898	Hs.56663	ESTs	2.2
	AA457129	Hs.6455	RuvB (E coli homolog)-like 2	2.2
	AA558980	Hs.191750	ESTs	2.2
114602	AA075642	Hs.103594	deleted in malignant brain tumors 1	2.2
120722	AA293435	Hs.97277	ESTs	2.2
102675	U72512		Human B-cell receptor associated protein	2.2
128551	H09058	Hs.237323	N-acetylglucosamine-phosphate mutase; DK	2.2
112020		Hs.22298	EST	2.2
	AA609216	Hs.112666	EST	2.2
	AA194266	Hs.178393	ESTs	2.2
	AA431992	Hs.104920		2.19
	M85220			2.19
	R07444	Hs.163118		2.19
132832		Hs.57734	KIAA0148 gene product	2.19
	HG2147-HT			2.19
	AA482077		ESTs; Weakly similar to hypothetical pro	2.19
	AA076145	Hs.61053	ESTs	2.19
	AA127515	Hs.71787	ESTs; Highly similar to 30S ribosomal pr	2.19
	Z39733	Hs.158159	FAT tumor suppressor (Drosophila) homolo	2.19
135395		Hs.99899	tumor necrosis factor (ligand) superfami	2.19
101717		Hs.1686	guanine nucleotide binding protein (G pr	2.19
	AA400013		EST	2.18
	AA235123		ESTs	2.18
		Hs.174248		2.18
	AA398736	Hs.97653	EST	2.18
-	AA621624	Hs.28088		2.18
	D31446	Hs.10488		2.18
	D13897	Hs.169249	Breakpoint cluster region protein; uteri	2.18
	AA323787	Hs.4770	peptide YY	2.18
	AA112274	∏5.4//U		2.10
1 14000	AA 1 12214		zm27g6.s1 Stratagene pancreas (#93728) H element;contains element LTR8 repetitiv	2.18
127000	AA223879		zr10g05.r1 Stratagene NT2 neuronal precu	2.18
-	H42896	Hs.29438	ESTs	2.18
119354		Hs.100651	golgi SNAP receptor complex member 2	2.18
130115		Hs.149923	X-box binding protein 1	2.18
	AA161085	Hs.15871	ESTs; Weakly similar to acid phosphatase	2.18
	H08077	Hs.217179		2.18
110161		Hs.28096	ESTs	2.18
132367		Hs.46634	cysteine conjugate-beta lyase; cytoplasm	2.18
	H45538	Hs.101448	metastasis associated 1	2.17
	W57698	Hs.8888	ESTs	2.17
	AA444004	Hs.6084	ESTs	2.17
113755	T99075	Hs.18570	ESTs	2.17
107525	X91817	Hs.102866	transketolase-like 1	2.17
119207	R93186	Hs.84298	CD74 antigen (invar polypept of maj hist	2.17
131862	AA236365		3-phosphoglycerate dehydrogenase	2.17
115514	AA297739	Hs.55609	ESTs; Weakly similar to ISOLEUCYL-TRNA S	2.17
112290	R53940	Hs.26016	ESTs	2.17
126136	H83353		yv82f02.r1 Soares melanocyte 2NbHM Homo	
121574	AA412712	Hs.119325		2.17
118530	N67900	Hs.118446	ESTs	2.16
132327	AA203285	Hs.44892	ESTs; Weakly similar to dJ733D15.1 [H.sa	2.16
	HG2239-H		Potassium Channel Protein (Gb:Z11585)	2.16
	AA022622		ESTs; Weakly similar to hypothetical pro	2.16
135317	X86012	Hs.98602	Human DNA sequence from intron 22 of the	
444		11- 0	9.5kb repeated region; Int22h-1; Involv	2.16
	AA250845		ESTS	2.16
		Hs.59860	ESTS	2.16
	N53787	Hs.191117		2.16
	L34060	Hs.79133	cadherin 8	2.16
	H93721	Hs.20798	ESTs	2.16
126843	AA450166	MS.ZZ041	ESTs; Moderately similar to predicted pr	2.16
	AA063616	Hs.104859	ESTS	2.16 2.16
	T66935	Hs.140834		2.15
	R16101		DKFZP564A063 protein	2.15
		Hs.2533	aldehyde dehydrogenase 9 (gamma-aminobu	
124907	U34252 AA287623		GTPase; human homolog of E. coli essenti	2.15
	AA412253		ESTs; Weakly similar to POLYPOSIS LOCUS	
122000	AA460707			2.15
	H00958	Hs.181641		2.15
122770	AA069571		Homo sapiens clone 24616 mRNA sequence	
102210	X74570	Hs.75268	sialyltransferase 4C (beta-galactosidase	2.15
1202213	AA362144	Hs.104601	EST	2.15
12/001	D42039	Hs.78871	KIAA0081 protein	2.15
106502	AA457140		DKFZP566O084 protein	2.15
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		occord protein	

2.14

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125576 R66208
                             vi30h03.r1 Soares placenta Nb2HP H sapie
                              contains Alu repetitive element contain
                                                                    2.15
126727 AA037230 Hs.135084 cystatin C (amylold angiopathy and cereb
                                                                    2 15
101490 M25629
                 Hs.123107 kallikrein 1; renal/pancreas/salivary
                                                                    2.15
129708 AA417181 Hs.120858 ESTs
                                                                    2.14
100627 HG2702-HT2798
                             Serine/Threonine Kinase (Gb:Z25424)
                                                                    2.14
121703 AA418671 Hs.104807 ESTs
                                                                    2.14
106809 AA479704 Hs.220324 Humn DNA seq frm clone 283E3 on chr 1p36
                             Female Reproductive tract MIFR1; -2; MM
129525 F03873
                  Hs.112306
                            Homo sapiens clone 24955 mRNA sequence; 2.14
100478 HG1067-HT1067
                             Mucin (Gb:M22406)
118593 N69020
                  Hs.207689 EST
                                                                     2.14
114047 W94427
                  Hs.3807
                             ESTs; Wealdy similar to PHOSPHOLEMMAN PR
128823 AA478207 Hs.10632
                             ESTs; Moderately similar to sex-determin
100534 HG1980-HT2023
                             Tubulin, Beta 2
                                                                    2.14
105757 AA321146 Hs.30596
                                                                    2.14
                             ESTs
                             ESTs; Weakly similar to dJ162H14.1 [H.sa
109617 F03192
                  Hs.26789
                                                                    2.14
121547 AA412448 Hs.104777
                             ESTs
                                                                    2.14
119420 T98291
                  Hs.102484 glutathione S-transferase A3
                                                                    2.14
120274 AA177051
                             nc02a02.s1 NCI_CGAP_Pr3 Homo sapiens cDN
                             repetitive element; contains element LTR
                                                                    2.14
132933 AA598702 Hs.6101
                             bone morphogenetic protein 6
                                                                    2.14
133405 X07881
                  Hs.73031
                             proline-rich protein BstNI subfamily 3
                                                                    2.14
119811 W73922
                  Hs.49047
134536 AA457735 Hs.850
                             IMP (inosine monophosphate) dehydrogenas
                                                                    2.14
                             aldo-keto reductase family 7; member A2
105125 AA157799 Hs.6980
                                                                    2.14
101398 M15881
                             uromodulin (uromucold; Tamm-Horsfall gly
                  Hs.1137
                                                                    2.14
132751 AA397901 Hs.55993
                             ESTs
                                                                    2.13
115777 AA424142 Hs.39384
                             putative secreted ligand homologous to f
                                                                    2.13
123193 AA489228 Hs.136956
                             ESTs
                                                                    2.13
116875 H67749
                  Hs.161022 EST
                                                                    2.13
107271 D60607
                  Hs.34931 EST
                                                                    2.13
134551 R44839
                  Hs.8526
                             i-beta-1;3-N-acetylglucosaminyitransfera
                                                                    2.13
113413 T83739
                  Hs.186512 ESTs
                                                                    2.13
120522 AA258843 Hs.258748 ESTs
                                                                    2.13
119965 W87738
                                                                    2.13
                Hs.59039
                            EST
131283 AA101601 Hs.183986 herpesvirus entry mediator B (poliovirus
                                                                    2.13
107347 U43628
                  Hs.102598 mucosal vascular addressin cell adhesion
                                                                    2.13
116490 C14265
                  Hs.66450
                            ESTs
                                                                     2.13
100563 HG2239-HT2324
                             Potassium Channel Protein (Gb:Z11585)
                                                                    2.13
                  Hs.19845
                             ESTs; Highly similar to protein phosphat
                                                                    2.13
110441 H50302
                  Hs.73858
                             carboxypeptidase N; polypeptide 2; 83kD
101035 J05158
                                                                    2.13
132500 AA047297
                  Hs.50107
                             ESTs; Moderately similar to CDO [H.saple
                                                                    2.13
129807 L34820
                             aldehyde dehydrogenase 5 family; member
                                                                    2.13
                  Hs.5299
106250 AA430466 Hs.28890
                             ESTs
                                                                    2.13
                                                                    2.13
                  Hs.162070 EST
113569 T91086
122911 AA470087 Hs.239726 ESTs
                                                                    2 13
107452 W28988
                  Hs.250746 ESTs
                                                                    2.12
                  Hs.25006
                                                                     2.12
111824 R35661
                             mitogen-activated protein kinase 11
132831 U53442
                  Hs.57732
                                                                     2.12
                             ESTs; Weakly similar to ALR [H.sapiens]
110244 H26742
                  Hs.25367
                                                                    2.12
                  Hs.107164 spectrin; beta; non-erythrocytic 1
128918 H85347
                                                                    2.12
133728 M10901
                  Hs.75772
                             nuclear receptor subfamily 3; group C; m
                                                                     2.12
                                                                     2.12
122476 AA448211 Hs.99164
                             ESTs
132004 L37360
                  Hs.37054
                             ephrin-A3
                                                                     2.12
113971 W86760
                  Hs.220682 ESTs
                                                                    2.12
                             protein phosphatase 6; catalytic subunit
103386 X92972
                  Hs.80324
                                                                    2.12
131120 AA443676 Hs.23133
                             ESTs; Weakly similar to alcohol sulfotra
                                                                     2.12
102186 U20285
                             G protein pathway suppressor 1
                                                                     2,12
                             zinc finger protein
103694 AA018541 Hs.60580
                                                                     2.12
111995 R42333
                  Hs.20893
                                                                     2.12
                             EST<sub>S</sub>
                  Hs.182584 ESTs
124436 N39596
                                                                     2 12
100306 D50495
                  Hs.80598
                             transcription elongation factor A (SII);
                                                                     2.12
103084 X59932
                                                                     2.11
                  Hs.77793
                             c-src tyrosine kinase
                                                                     2.11
115092 AA255903 Hs.80975
                             CD39-like 4
121579 AA416543 Hs.111981
                                                                     2.11
                             ESTs
127101 Al349351 Hs.118944 ESTs
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121195 AA400273 Hs.97791
                             ESTs
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112721 R91484
                  Hs.30853
                                                                     2.11
                             ESTs
113253 T64207
                  Hs.55296
                             HLA-B associated transcript-1
                                                                     2.11
120838 AA348887 Hs.96907
                                                                     2.11
                             ESTs
114122 Z38582
                  Hs.12751
                             ESTs
                                                                     2.11
112635 R82298
                  Hs.29497
                             ESTs
                                                                     2.11
103785 AA095600 Hs.225647
                                                                     2.11
                             ESTs
128260 AA331445
                             EST35277 Embryo, 8 week I Homo sapiens c 2.11
122987 AA479155 Hs.103364 ESTs
                                                                     2.11
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	H42983	Hs.227263	ESTs	2.11	
	D60625	Hs.177656	calmodulin 1 (phosphorylase kinase; delt	2.11	
126117	H78617		yu26a08.r1 Soares fetal liver spleen 1NF	2.11	
116610	D80448	Hs.45177	ESTs	2.11	
	R01248	Hs.19165	ESTs	2.11	
	AA463929		ESTs	2.11	
	Z40121	Hs.65870	ESTs; Weakly similar to Pro-Pol-dUTPase	2.1	
	AA147218		ESTs	2.1	
	AA115253		ESTs	2.1	
126702	U54602	Hs.2785	keratin 17	2.1	
124096	H10060	Hs.101687	EST	2.1	
132720	Z69881	Hs.5541	ATPase; Ca++ transporting; ubiquitous	2.1	
		Hs.104895		2.1	
			DKFZP547E1010 protein	2.1	
		Hs.104964		2.1	
	H72014		ESTs; Weakly similar to SYNAPTOTAGMIN I		
	T54613	Hs.9761	EST	2.1	
134629	U00951	Hs.87150	Human clone A9A2BR11 (CAC)n/(GTG)n rep	ea	2.1
105712	AA291293	Hs.25219	ESTs	2.1	
106931	AA495918	Hs.26714	ESTs	2.1	
	Z40424	Hs.27728	ESTs	2.1	
	D80666	Hs.45203	ESTs	2.09	
	D21089	Hs.320	xeroderma pigmentosum; complementation g		
	W37694	Hs.55561	ESTs	2.09	
	S72493	Hs.115947	keratin 16 (focal non-epidermolytic palm	2.09	
133912	X62744	Hs.77522	major histocompatibility complex; class	2.09	
129636	N34942	Hs.11782	ESTs	2.09	
	AA443941		tumor suppressing subtransferable candid	2.09	
	M98539	Hs.8272	prostaglandin D2 synthase (21kD; brain)	2.09	
	AA235989			2.09	
			short stature homeobox 2		
	X91348	Hs.93522	putative non-coding transcript (DiGeorge	2.09	
	AA224594		ESTs	2.09	
101333	L47738	Hs.80313	p53 inducible protein	2.09	
100114	D00596	Hs.82962	thymidylate synthetase	2.09	
130536	T17045	Hs.159492	spastic ataxia of Charlevolx-Saguenay (s	2.09	
125772	R83903	Hs.78040	KDEL (Lys-Asp-Glu-Leu) endoptasmic retic	2.09	
	AA247569		ESTs	2.09	
	R06273		ESTs; Moderately similar to IIII ALU SUB	2.09	
	AI247780	Hs.117036		2.08	
			ESTs; Weakly similar to ATP-binding cass	2.08	
121315	AA402883	HS.82269	progestagen-associated endometrial prote		
			endometrial alpha-2-globulin; alpha ute	2.08	
112150	R46576	Hs.23239	ESTs	2.08	
105054	AA133584	Hs.26333	JM1 protein	2.08	
113151	T51620	Hs.9326	EST	2.08	
118783	N75285	Hs.50593	ESTs; Moderately similar to cytoplasmic	2.08	
	AA249580		ESTs: Moderately similar to CDO [H.sapie	2.08	
	U77643	Hs.95655	secreted and transmembrane 1	2.08	
	X60152	113.55555	zinc finger protein 2	2.08	
					2.09
	N28990	11- 40047	yx39g04.r1 Soares melanocyte 2NbHM Homo		2.08
	H81933	Hs.40317	ESTs	2.08	•
101756	M77235	Hs.169331	sodium channel; voltage-gated; type V; a	2.08	
116935	H75763	Hs.53468	FSTe		
	111 01 00			2.08	
118556	N68408		Homo sapiens mRNA; cDNA DKFZp564D113		2.08
	N68408		Homo sapiens mRNA; cDNA DKFZp564D113		2.08
129812	N68408 L07807	Hs.194637 Hs.166161	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1	(fr 2.08	2.08
129812 121946	N68408 L07807 AA429411	Hs.194637 Hs.166161 Hs.104888	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs	(fr 2.08 2.08	2.08
129812 121946 133843	N68408 L07807 AA429411 AA489045	Hs.194637 Hs.166161 Hs.104888 Hs.76691	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence;	(fr 2.08 2.08 2.08	2.08
129812 121946 133843 122170	N68408 L07807 AA429411 AA489045 AA435744	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs	(fr 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399	N68408 L07807 AA429411 AA489045 AA435744 AA446449	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens ctone 25100 mRNA sequence; ESTs EST	(fr 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST EST ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs esrs euroblastoma RAS vtral (v-ras) oncogene ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTS ESTS	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131556	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2869	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens ctone 25100 mRNA sequence; ESTs EST ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs Cyclin-dependent kinase 5; regulatory su	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA021091 R78852 AA442853 N79836	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs estrs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345	N68408 L07807 AA429411 AA489045 AA435744 AA46449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs estrollastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324	N68408 L07807 AA429411 AA489045 AA435744 AA46449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307 Hs.25625	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324 105233	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U58690 H58690 AA216759	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.26338 Hs.102307 Hs.25625 Hs.191132	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131585 118837 107345 131324 105233 112886	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 R78852 AA421091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.26208 Hs.151099 Hs.26338 Hs.102307 Hs.25625 Hs.191132 Hs.7436	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens ctone 25100 mRNA sequence; ESTs EST ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs ESTs putative acyltransferase	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105771 123943 105771 114454 125802 131556 118837 107345 131324 105233 112886 120252	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864 AA169400	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens ctone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acyltransferase DKFZP434F124 protein	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 105775 123943 105771 114454 125802 131556 118837 107345 131324 105233 11286 120252 114867	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021097 AA021099 H58690 AA216759 T03864 AA169400 AA235310	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131585 118837 107345 131324 105233 112886 120252 114867 106715	N68408 L07807 AA429411 AA489045 AA435744 AA46449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA464955	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens ctone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acyltransferase DKFZP434F124 protein	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.08
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131585 118837 107345 131324 105233 112886 120252 114867 106715	N68408 L07807 AA429411 AA489045 AA435744 AA46449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA464955	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acyltransferase DKFZP434F124 protein ESTs; Moderately similar to IIII ALU SUB ESTs; Weakly similar to EPIDERMAL GROW	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
129812 121946 133843 122170 122399 105775 123943 105771 114454 125802 131586 118837 107345 131324 105233 112886 120252 11486715 106715 125560	N68408 L07807 AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U79836 AA216759 T03864 AA169400 AA235310 AA464955 R51281	Hs.194637 Hs.166161 Hs.16691 Hs.165913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.26338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899 Hs.126062 Hs.13692	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs ESTs ESTs ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
129812 121946 133843 122170 105775 123943 105771 1144502 131556 118837 107345 131324 105233 112886 120252 114867 108715 125560 112270	N68408 L07807 AA429411 AA489045 AA435744 AA46449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA464955	Hs.194637 Hs.166161 Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2669 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899 Hs.126062	Homo sapiens mRNA; cDNA DKFZp564D113 dynamin 1 ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs ESTs ESTs ESTs	(fr 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	

115723	AA417345	Hs.54846	ESTs	2.07	
		Hs.112949	EST	2.07	
	W85818		ESTs; Moderately similar to IIII ALU SUB	2.07	
108559	AA085161		zn12c5.s1 Stratagene hNT neuron (#937233		
			IMAGE:54728 3' similar to TR:G1151228 G	2.07	
101246		Hs.202097		2.07	
100663	HG2915-H	T3059	Major Histocompatibility Complex, Class I, E (Gb:M20022)	2.07
114178	Z39063	Hs.17930	Humn DNA seq frm clone 1033B10 on chr 6p		
			for GaIT3 (beta3-Galactosyltransferase)	2.07	
	AA152281	Hs.78601	uroporphyrinogen decarboxylase	2.07	
	N53360	Hs.165133		2.07	
	U41163	Hs.229731	solute carrier family 6 (neurotransmitte	2:07	
	AA535148	Hs.255277	ESTs	2.07	
101182	L19711	Hs.76111	dystroglycan 1 (dystrophin-associated gl	2.07	
131111	R33245	Hs.23076	ESTs; Wealdy similar to putative [C.eleg	2.07	
112441	R63388	Hs.28412	ESTs	2.06	
117796	N48571	Hs.46689	EST	2.06	
116099	AA456309	Hs.58831	regulator of Fas-induced apoptosis	2.06	
125559	AA307550	Hs.119571	collagen; type III; atpha 1 (Ehlers-Dani	2.06	
135271	AA397763	Hs.97562	ESTS	2.06	
106083	AA418545	Hs.31659	thyroid hormone receptor-associated prot	2.06	
133419	U67369	Hs.73172	growth factor independent 1	2.06	
127816	AA743646	Hs.120604	ESTs	2.06	
127502	AA614422	Hs.183502	ESTs	2.06	
129371	M10321	Hs.110802	von Willebrand factor	2.06	
108417	AA075716		zm89e5.s1 Stratagene ovarian cancer (#93		
			CLUSTERIN PRECURSOR (HUMAN);, mRN	A sequ	2.06
102837	U94585	Hs.13495	requiem; apoptosis response zinc finger	2.06	
124226	H62396	Hs.190266		2.06	
	U28131		Human HMGI-C chimeric transcript mRNA, p		
128472	X87212	Hs.10029	cathepsin C	2.06	
	Z82022	Hs.26433	dolichyl-phosphate (UDP-N-acetylglucosam	2.06	
	M36089	Hs.98493	X-ray repair complementing defective rep	2.06	
	AA420973	Hs.104234		2.06	
	U02619	Hs.331	general transcription factor IIIC; polyp	2.06	
	AA235810	Hs.182522		2.06	
	H57686	Hs.37486	ESTs	2.06	
	AA112307		Homo sapiens mRNA; cDNA DKFZp434G231		2.06
	H41222	Hs.196459		2.06	
			inositol(myo)-1(or 4)-monophosphatase 1	2.06	
	H62223		ESTs; Weakly similar to IIII ALU SUBFAMI	2.06	
	AA234259		ESTs	2.06	
	AA112595		Human DNA sequence from clone 1042K10 o		
100.00	701112000	110.011110	lyase (EC 4.3.2.2; Adenylosuccinase; AS	••	
			3). Contains ESTs; STSs; GS	2.06	
119782	MEZODOO				
		He 58262			
		Hs.58262	ESTs	2.06	
	AA112059		ESTs ATP synthase; H+ transporting; mitochond	2.06 2.06	
134875	AA112059 U66672	Hs.180513	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1	2.06 2.06 2.06	
134875 106832	AA112059 U66672 AA482015	Hs.180513 Hs.30114	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens]	2.06 2.06 2.06 2.06	
134875 106832 109403	AA112059 U66672 AA482015 AA224413	Hs.180513 Hs.30114 Hs.86937	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs	2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485	AA112059 U66672 AA482015 AA224413 AA287667	Hs.180513 Hs.30114 Hs.86937 Hs.188804	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs	2.06 2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485 102923	AA112059 U66672 AA482015 AA224413 AA287667 X12517	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs ESTs small nuclear ribonucleoprotein polypept	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485 102923 123320	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs esmall nuclear fibonucleoprotein polypept EST	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485 102923 123320 111901	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572 Hs.17638	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs ESTs small nuclear fibonucleoprotein polypept EST ESTs	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485 102923 123320 111901 106558	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572 Hs.17638 Hs.182447	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs email nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485 102923 123320 111901 106558 126885	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs estall nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C.	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs ESTs testrageneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 AA496792 AA455111 AA293052 T85190 U30255	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs ESTs ESTS ESTS ESTS ESTS ESTS	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39656 14293052 T85190 U30255 X72475	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs	2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HT9	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 113429 102270 103204 106666 100947 102578	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X2475 AA461072 HG907-HTS	Hs.180513 Hs.30114 Hs.86937 Hs.188804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HTY U60666 AA398255	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 307 Hs. 57693 Hs. 31520	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs Heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged Ig kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HT9 U60666 AA398255 AA442830	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 807 Hs. 57693 Hs. 57693 Hs. 57693 Hs. 57693	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324 101025	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HTS U60666 AA392855 AA442830 J04823	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916 907 Hs.57693 Hs.31520 Hs.98921 Hs.81097	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST EST EST Cytochrome c oxidase subunit VIII	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324 101025 115861	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HTS U60666 AA398255 AA442830 J04823 AA431768	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916 307 Hs.57693 Hs.31520 Hs.88921 Hs.84097 Hs.84097	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged Ig kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST EST EST EST EST EST Cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324 101025 101025 101026 101026 108081	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HT3 U60666 AA398255 AA442830 J04823 J04823 AA431768 AA45306	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 307 Hs. 57693 Hs. 31520 Hs. 81097 Hs. 98921 Hs. 98921 Hs. 989259 Hs. 42996	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST Cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
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134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324 101025 115861 108081 108081 108081 108081	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HT3 U60666 AA398255 AA442830 J04823 AA41768 AA045306 X74929 R46700	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 907 Hs. 57693 Hs. 31520 Hs. 81097 Hs. 81097 Hs. 84097 Hs. 840	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs Heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs ESTs EST cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs keratin 8 ESTs; Moderately similar to !!!! ALU SUB	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 113429 102270 103204 106666 100947 102578 105827 122324 101025 115861 103094 119131 119131 129793	AA112059 U66672 AA482015 AA224413 AA296767 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG90666 AA398255 AA442830 J04823 AA431768 AA045306 X74929 R46700 AA300151	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 907 Hs. 57693 Hs. 31520 Hs. 81097 Hs. 81097 Hs. 82996 Hs. 42996 Hs. 242463 Hs. 129692 Hs. 126857	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs EST cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs ESTs EST; Moderately similar to IIII ALU SUB ESTs	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324 101025 115861 108081 133994 119131 129793 101653	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 U30255 X72475 AA461072 HG907-HTS U60666 AA398255 AA442830 J04823 AA431768 AA045306 X74929 R46700 AA300151 M60284	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 18804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75588 Hs. 192989 Hs. 37916 907 Hs. 57693 Hs. 31520 Hs. 90259 Hs. 42996 Hs. 242463 Hs. 126857 Hs. 126857 Hs. 161305	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST Cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs EST Cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs ESTs (Moderately similar to IIII ALU SUB ESTs tachykinin receptor 2	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 101025 115861 108081 133994 119131 129793 101653 120300	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HTS U60666 AA398255 AA442830 J04823 AA431768 AA045306 X74929 R46700 AA300151 M60284 AA191648	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916 307 Hs.57693 Hs.31520 Hs.84097 Hs.84097 Hs.842966 Hs.242463 Hs.126697 Hs.126857 Hs.161305 Hs.131476	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST EST Cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs keratin 8 ESTs; Moderately similar to IIII ALU SUB ESTs EST EST STS; Moderately similar to IIII ALU SUB ESTs ESTs ESTs	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 101025 115861 108081 133994 119131 129793 101653 120300	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 U30255 X72475 AA461072 HG907-HTS U60666 AA398255 AA442830 J04823 AA431768 AA045306 X74929 R46700 AA300151 M60284	Hs.180513 Hs.30114 Hs.86937 Hs.18804 Hs.1063 Hs.139572 Hs.17638 Hs.182447 Hs.10101 Hs.179808 Hs.75888 Hs.192989 Hs.37916 307 Hs.57693 Hs.31520 Hs.84097 Hs.84097 Hs.842966 Hs.242463 Hs.126697 Hs.126857 Hs.161305 Hs.131476	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs Heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST Cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs keratin 8 ESTs; Moderately similar to IIII ALU SUB ESTs tachykinin receptor 2 ESTs Hu DNA sequence from clone 889N15 on chr	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 100947 102578 105827 122324 101025 115861 108081 108081 129793 101653 120300 106519	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39056 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HT3 U60666 AA398255 AA442830 J04823 AA4431768 AA045306 X74929 R46700 AA300151 M60284 AA191648 AA453415	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 907 Hs. 57693 Hs. 31520 Hs. 81097 Hs. 81097 Hs. 82259 Hs. 242463 Hs. 126857 Hs. 126857 Hs. 161305 Hs. 131476 Hs. 8763	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs ESTs Heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs keratin 8 ESTs; Moderately similar to !!!! ALU SUB ESTs tachykinin receptor 2 ESTs Hu DNA sequence from clone 889N15 on chr Thymocyte Marker CTX; the possibly alte	2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	
134875 106832 109403 115485 102923 123320 111901 106558 126885 113429 102270 103204 106666 10947 102578 105827 122324 101025 115861 108081 119131 129793 101653 120300 106519	AA112059 U66672 AA482015 AA224413 AA287667 X12517 AA496792 R39066 AA455111 AA293052 T85190 U30255 X72475 AA461072 HG907-HT9 U60666 AA398255 AA442830 J04823 AA431768 AA045306 X74929 R46700 AA300151 M60284 AA191648 AA453415 Z40690	Hs. 180513 Hs. 30114 Hs. 86937 Hs. 188804 Hs. 1063 Hs. 139572 Hs. 17638 Hs. 182447 Hs. 10101 Hs. 179808 Hs. 75888 Hs. 192989 Hs. 37916 907 Hs. 57693 Hs. 31520 Hs. 81097 Hs. 81097 Hs. 82259 Hs. 242463 Hs. 126857 Hs. 126857 Hs. 161305 Hs. 131476 Hs. 8763	ESTs ATP synthase; H+ transporting; mitochond ATP-binding cassette; sub-family A (ABC1 ESTs; Highly similar to C8 [H.sapiens] ESTs ESTs ESTs small nuclear ribonucleoprotein polypept EST ESTs ESTs Heterogeneous nuclear ribonucleoprotein ESTs; Weakly similar to coded for by C. ESTs phosphogluconate dehydrogenase H.sapiens mRNA for rearranged lg kappa I ESTs Mg44 testis specific leucine rich repeat prot ESTs EST cytochrome c oxidase subunit VIII ESTs; Weakly similar to alpha 1 [H.sapie ESTs keratin 8 ESTs; Moderately similar to IIII ALU SUB ESTs tachykinin receptor 2 ESTs Hu DNA sequence from clone 889N15 on chr Thymocyte Marker CTX; the possibly alte Homo sapiens mRNA full length insert cDN	2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	2.04

123323	AA332944	Hs.8402	adenytate cyclase 3	2.04	
119978	W88623	Hs.59190	EST	2.04	
102449	U48231	Hs.46348	bradykinin receptor 81	2.04	
	M21812	Hs.50889	myosin light chain 2	2.04	
	AA455904		ESTs	2.04	
	U32674		G protein-coupled receptor 9	2.04	
130889	D57622	Hs.20985	sin3-associated polypeptide; 30kD	2.04	
100196	D21853	Hs.79768	KIAA0111 gene product	2.04	
	AA398111		ESTs	2.04	
	AA293096		ESTs	2.04	
135031	R41604	Hs.9344	ESTs; Weakly similar to IIII ALU SUBFAMI	2.04	
104882	AA052954	Hs.29546	ESTs	2.04	
132619	AA404565	Hs.53447	ESTs; Moderately similar to kinesin ligh	2.04	
	AA847856			2.04	
	AA620299		ESTs	2.04	
102272	U30610	Hs.41682	killer cell lectin-like receptor subfami	2.04	
119566	W38209		Accession not listed in Genbank	2.04	
116622	D81171	Hs.45208	ESTs; Weakly similar to collagen type VI	2.04	
			catenin (cadherin-associated protein); d	2.04	
	H67146	Hs.38564	ESTs	2.04	
115448	AA284845	Hs.165051	ESTs	2.04	
127231	AA434584		zw52c03.r1 Soares_total_fetus_Nb2HF8_9w	2.04	
	X99728		H.sapiens NDUFV3 gene, exon 3	2.04	
		U= 00424			
	U00802	Hs.89434	drebrin 1	2.04	
117046	H89505		yu81f4.s1 Soares fetal liver spleen 1NFL		
			to contains Alu repetitive element, mR	2.04	
124579	N68345	Hs.127179	ESTs; Weakly similar to TERATOCARCINOM	IA-	2.04
	R45970	Hs.236349		2.04	
	AA133300			2.03	
103668	Z83741	Hs.248174	H2A histone family; member M	2.03	
113501	T89107	Hs.13262	ESTs	2.03	
125021	T70060	Hs.163918	ESTs	2.03	
	AA420998			2.03	
	AA521370			2.03	
102054	U07695	Hs.155227		2.03	
115627	AA401910	Hs.119175	ESTs; Weakly similar to ZINC FINGER PROT	2.03	
129252	AA234663			2.03	
	X96849		H.sapiens 5' mRNA of PECAM-1 molecule	2.03	
	U11863	Hs.75741	amiloride binding protein 1 (amine oxida	2.03	
114176	Z39059	Hs.27267	ESTs; Weakly similar to tetraspan TM4SF	2.03	
114176					
114176 123966	Z39059 C14068	Hs.27267 Hs.21806	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N	2.03 2.03	
114176 123966 134236	Z39059 C14068 D45371	Hs.27267 Hs.21806 Hs.80485	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1	2.03 2.03 2.03	
114176 123966 134236 116381	Z39059 C14068 D45371 AA598614	Hs.27267 Hs.21806 Hs.80485 Hs.65394	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs	2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711	Z39059 C14068 D45371 AA598614 AA046737	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs	2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316	Z39059 C14068 D45371 AA598614 AA046737 AA206914	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST	2.03 2.03 2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316	Z39059 C14068 D45371 AA598614 AA046737	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST	2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316 123793	Z39059 C14068 D45371 AA598614 AA046737 AA206914	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST EST ESTs	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316 123793 128462	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST ESTs ESTs anyl hydrocarbon receptor nuclear transi	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316 123793 128462 117690	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs EST EST EST ESTs aryl hydrocarbon receptor nuclear transl ESTs	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316 123793 128462 117690 113301	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834 Hs.13104	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST EST ESTs anyl hydrocarbon receptor nuclear transl ESTs EST	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	2.02
114176 123966 134236 116381 103711 109316 123793 128462 117690 113301 134563	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452 AA173430	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834 Hs.13104	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs EST EST ESTs aryl hydrocarbon receptor nuclear transl ESTs EST EST EST Homo saplens mRNA; cDNA DKFZp564D146	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	2.03
114176 123966 134236 116381 103711 109316 123793 128462 117690 113301 134563	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834 Hs.13104	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST ESTs anyl hydrocarbon receptor nuclear transl ESTs EST Homo saplens mRNA; cDNA DKFZp564D146 zm69f4.s1 Stratagene neuroepithelium (#9	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	2.03
114176 123966 134236 116381 103711 109316 123793 128462 117690 113301 134563 108316	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452 AA173430	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.112858 Hs.166172 Hs.93834 Hs.13104 Hs.85335	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs EST EST ESTs aryl hydrocarbon receptor nuclear transl ESTs EST EST EST Homo saplens mRNA; cDNA DKFZp564D146	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	2.03
114176 123966 134236 116381 103711 109316 123793 128462 117690 113301 134563 108316 135239	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452 AA173430 AA070160 AA454599	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834 Hs.13104 Hs.85335	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST ESTs anyl hydrocarbon receptor nuclear transl ESTs EST Homo sapiens mRNA; cDNA DKFZp564D146 zm69f4.s1 Stratagene neuroepithelium (#9 Homo sapiens chromosome 19; fosmid 39554	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	
114176 123966 134236 116381 103711 109316 123793 128462 117690 113301 134563 108316 135239 120342	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452 AA173430 AA070160 AA454599 AA207105	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834 Hs.13104 Hs.85335 Hs.19399 Hs.45068	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST ESTs anyl hydrocarbon receptor nuclear transl ESTs EST Homo saplens mRNA; cDNA DKFZp564D146 zm69f4.s1 Stratagene neuroepithelium (#9 Homo saplens chromosome 19; fosmid 39554 Homo saplens mRNA; cDNA DKFZp4341143	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	2.03
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114176 123966 134236 116381 103711 109316 123793 128462 117690 113301 134563 108316 135239 120342 103493 114204 113292 132973 103727 113174 120978 103727 113174 12087 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 102806 103169 103	Z39059 C14068 D45371 AA598614 AA046737 AA206914 AA620343 M69238 N40467 T67452 AA173430 AA070160 AA454599 AA207105 Y08976 Z39259 H62307 AA402624 H54036 AA412133 AA291526 AF005039 AA035446 AA059415 T54659 AA398085 AA457242 T81623 AA398751 U90306 C77148	Hs.27267 Hs.21806 Hs.80485 Hs.65394 Hs.102792 Hs.86322 Hs.112858 Hs.166172 Hs.93834 Hs.13104 Hs.85335 Hs.19399 Hs.45068 Hs.234759 Hs.26096 Hs.265619 Hs.265619 Hs.104696 Hs.226619 Hs.200600 Hs.214361 Hs.9279	ESTs; Weakly similar to tetraspan TM4SF ESTs; Moderately similar to similar to N adipose most abundant gene transcript 1 ESTs ESTs EST ESTS EST ESTS aryl hydrocarbon receptor nuclear transl ESTs EST Homo sapiens mRNA; cDNA DKFZp564D146 zm69f4.s1 Stratagene neuroepithelium (#9 Homo sapiens chromosome 19; fosmid 39554 Homo sapiens chromosome 19; fosmid 39554 Homo sapiens mRNA; cDNA DKFZp434I143 H.sapiens mRNA for FEV protein ESTs ESTs; Weakly similar to KIAA0246 [H.sapl synuclein; gamma (breast cancer-specific death-associated protein kinase 3 ESTs ESTs ESTs Secretory carrier membrane protein 3 ESTs growth factor receptor-bound protein 2 ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	
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115463	AA286819	Hs.69485	ESTs; Weakly similar to similar to other	2.02	
	H65776	Hs.222403	ESTs	2.02	
101234	L29277	Hs.142258	signal transducer and activator of trans	2.02	
121208	AA400470	Hs.97805	ESTs	2.02	
122598	AA453465	Hs.99329	ESTs	2.02	
110668	H84882	Hs.33791	ESTs; Weakly similar to K:Cl cotransport	2.02	
117137	H96670	Hs.42221		2.02	
119389	T88826	Hs.90973	ESTs	2.01	
102940	X13956	Hs.24998	Human 12S RNA induced by poly(rl); poly(2.01	
100748	HG3517-H1	T3711	Alpha-1-Antitrypsin, 5' End	2.01	
103012	X52638	Hs.739	6-phosphofructo-2-kinase/fructose-2;6-bi	2.01	
132755	AA609201	Hs.182635	ESTs	2.01	
	H39589	Hs.20159	ESTs; Highly similar to CGI-92 protein [2.01	
133599	M64788	Hs.75151	RAP1; GTPase activating protein 1	2.01	
117250	N21081	Hs.15299		2.01	
115124	AA256666	Hs.39156		2.01	
128155	AA926843	Hs.143302	ESTs	2.01	
		Hs.16178	apoptosis antagonizing transcription fac	2.01	
	R78838	Hs.54943	fracture callus 1 (rat) homolog	2.01	
117428	N27366	Hs.43933	EST	2.01	
121108	AA399053	Hs.97529		2.01	
130518	X69550	Hs.159161	Rho GDP dissociation inhibitor (GDI) alp	2.01	
110606	H66049	Hs.19085	ESTs; Weakly similar to putative p150 (H	2.01	
120606	AA282956		zt15h4.s1 NCI_CGAP_GCB1 Homo sapiens	ИŒ	
			SW:CADR_MOUSE P3938 RETINAL-CADH	erin Pr	2.01
130070	T47969	Hs.194660	ceroid-lipofuscinosis; neuronal 3; juven	2.01	
130331	Z80783	Hs.239884	H2B histone family; member L	2.01	
	F02602	Hs.6749	ESTs	2.01	
131749	W78211	Hs.31547	ESTs; Highly similar to NADH:ubiquinone	2.01	
129463	AA376905	Hs.111742	ESTs; Weakly similar to IIII ALU SUBFAMI	2.01	
114880	AA235698	Hs.65862	ESTs	2.01	
114745	AA135523	Hs.139064	EST	2.01	
115637	AA402727	Hs.76925	ESTs; Highly similar to R31167_2; partia	2.01	
109043	AA159605	Hs.72580	ESTs	2.01	
128901	Z41411	Hs.107040	ESTs	2.01	
124427	N36812	Hs.178663		2	
100673	HG3033-H7	T3194	Spliceosomal Protein Sap 62	2	
108436	AA078801		zm94a9.s1 Stratagene colon HT29 (#937221		
123764	AA610019	Hs.112654	ESTs	2	
	N70791	Hs.180060		2	
		Hs.105043		2	
			receptor-interacting serine-threonine ki	2	
		Hs.48026	ESTs	2	
111693	R22007	Hs.23321	EST	2 2	
113353	T79186	Hs.14468	ESTs	2	

Table 18: B survivor vs Mets – Up in Mets

Pkey: Unique Eos probeset identifier number

ExAcon: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

		Unigene	Title: Unigene gene title		
Pkey	Ex Accn	UniG ID	Complete Title	Ratio BS/Met	
106024	AA412059	Hs.111742	ESTs; Weakly similar to !!!! ALU SUBFAMI	0.17	
	N48603	Hs.14947	ESTs	0.18	
		Hs.221132		0.2	
	Z48633	Hs.6940	H.sapiens mRNA for retrotransposon	0.2	
	F02506	Hs.32793		0.24 0.24	
		He 111730	thyroid hormone receptor interactor 8 ESTs; Weakly similar to alternatively sp	0.25	
	HG3484-H		Protein Kinase (Gb:M59287)	0.25	
	U92014		Human clone 121711 defective mariner tra	0.26	
	AA169253		ESTs	0.26	
		Hs.193552		0.27	
		Hs.181400	====	0.28	
	AA456981		ESTs	0.28	
		Hs.133325		0.28	
	R19414 N66767	Hs.166459		0.29 0.29	
	AA215379	Hs.124145 He 50418	ESTS	0.29	
	U28831	16.50410	Human protein immuno-reactive with anti-	0.3	
		Hs.222992	ESTs; Weakly similar to TRANSFORMATION		0.3
	F13663	Hs.16798	ESTs	0.3	
111110	N63165	Hs.23618	ESTs	0.31	
	W90583	Hs.9853	ESTs	0.32	
		Hs.29147		0.33	
		Hs.190065		0.33	
		Hs.54982		0.33	
	H87770	Hs.153800		0.33	
	AA393806	Hs.193253	regulator of mitotic spindle assembly 1	0.34 0.34	
		Hs.21610		0.34	
	N69324	Hs.12526			
	T77866	Hs.189703		0.35	
			ESTs; Moderately similar to Sqv-7-like p	0.35	
			ESTs; Weakly similar to CGI-73 protein [0.35	
	T91116	Hs.15713		0.35	
		Hs.175663		0.35	
		Hs.24115		0.35	
	AA490866 R39882	Hs.21397	ESTs ESTs	0.36 0.36	
	T53722	(15.2 (33)	ya91c06.r3 Stratagene placenta (#937225)	0.36	
		Hs.112592		0.36	
		Hs.193272		0.36	
	T86914	Hs.194485		0.36	
114757	AA136725	Hs.161990	ESTs	0.37	
	AA446695		Homo sapiens clone 23926 mRNA sequence		
			eukaryotic translation initiation factor	0.37	
			ESTs; Moderately similar to 67A9.b [D.me	0.37	•
		Hs.188813	triple functional domain (PTPRF interact	0.38 0.38	
		Hs.167948		0.38	
			Human kpni repeat mma (cdna clone pcd-k	0.38	
	D49728		nuclear receptor subfamily 4; group A; m	0.38	
	T79020		ESTs; Weakly similar to kinase-related p	0.39	
114021	W91995	Hs.16145	ESTs	0.39	
	AA431296	Hs.139433		0.39	
	N50959		amine oxidase; copper containing 2 (reti	0.39	
	H19326	Hs.22073	ESTs; Highly similar to J KAPPA-RECOMBIN		
	AA004652 R41933	Hs.18564 Hs.140237	ESTS ESTS	0.39 0.39	
125187	AA713494		ceroid-lipofuscinosis; neuronal 3; luven	0.35	
			ESTs; Weakly similar to unnamed protein	0.4	
	R23653	Hs.164250		0.4	
117001	H84719	Hs.40721	EST	0.4	
120905	AA371602		ESTs; Highly similar to PHOSPHATIDYLINOS		
125488	AA355158	Hs.41181	Homo sapiens mRNA; cDNA DKFZp727C191	(fr	0.4

494090	44400044	11- 400704	11	0.42	۸.4
	AA430044 AA806616		Homo sapiens mRNA; cDNA DKFZp586K192	2 (1 0.4	0.4
	W74700	Hs.53478	ESTs	0.41	
	AA435571		ESTS	0.41	
	U82303		Homo saplens unknown protein mRNA; parti	0.41	
113518	T89731		ye11f06.s1 Stratagene lung (#937210) H s		
40000-			to contains Alu repetitive element; cont	0.41	
	HG2724-H		Oncogene Tls/Chop, Fusion Activated	0.41	
	T70356 AA402935		ESTs; Weakly similar to coding sequence	0.41	
	R34382	Hs.24779	ESTs; Weakly similar to IIII ALU CLASS B ESTs	0.42 0.42	
			ESTs; Highly similar to dJ1119D9.2 [H.sa	0.42	
129258	W95592		ESTs; Moderately similar to POLYADENYLAT		
	T86475	Hs.16193			0.43
	AA443271			0.43	
108841	AA132524	Hs.70614	ESTs	0.43	
	W80741	Hs.37890	ESTs	0.43	
	AA398285		EST	0.43	
	AA054597			0.43	
	N58185	Hs.131830		0.43	
	AA032013 C16652		Homo sapiens mRNA; cDNA DKFZp434L222	0.43	0.43
	Al318412		actin binding protein; macrophin (microf	0.44	0.43
	N38770	Hs.4283	ESTs	0.44	
	AA460420		ESTs	0.44	
	H93046	Hs.15571	ESTs	0.44	
	AA280583			0.44	
110904	N39453	Hs.27371	Homo saplens mRNA; cDNA DKFZp566J123	(fr	0.44
109482	AA233375	Hs.78085	ESTs	0.44	
	U31449	Hs.11881	transmembrane 4 superfamily member 4	0.44	
	N70582	Hs.49892	ESTs	0.44	
	AA281244	Hs.65300	ESTs	0.44	
	T51588	LI- 40400	ESTs; Moderately similar to IIII ALU SUB	0.44	
	T97931 N73808	Hs.18190 Hs.24936	EST ESTs	0.44 0.44	
	AA094107		ESTs; Weakly similar to similar to glyco	0.44	
	T57865	Hs.10310	EST	0.44	
	D50857	Hs.82295	dedicator of cyto-kinesis 1	0.44	
	AA279024			0.44	
125500	H46104	Hs.244624	ESTs	0.44	
117387	N26011	Hs.53810	ESTs	0.45	
	W42450	Hs.206833		0.45	
	N58204	Hs.199945		0.45	
			Human endogenous retroviral protease mRN		
	R91954	Hs.153699		0.45 0.45	
	T70341 AA422123	Hs.131897	ESTS	0.45	
	AA432080		ESTs	0.45	
	W02695	Hs.18714	ESTs	0.45	
	Al124649		Homo sapiens mRNA; cDNA DKFZp586O031		0.45
127823	AA524806			Ò.45	
116665	F04405	Hs.223654	EST	0.45	
	AA443272			0.45	
			KIAA0410 gene product	0.45	
	W01587			0.45	
	H93021 H69569	MS.10293/	peptidylprolyl Isomerase A (cyclophilin	0.46 0.46	
	AA236542		ESTs; Moderately similar to IIII ALU SUB	0.46	
	AA400277			0.46	
	AA489707			0.46	
	R27975	Hs.187469		0.46	
		U- 40007	ESTs	A 4A	
	AA405838	MS.40007	E013	0.46	
	AA504744	Hs.26461	ESTs; Wealty similar to go-rich sequence	0.46	
108622	AA504744 AA101828	Hs.26461 Hs.189956	ESTs; Weakly similar to go-rich sequence ESTs	0.46 0.46	
108622 128286	AA504744 AA101828 Al025771	Hs.26461 Hs.189956 Hs.144090	ESTs; Weakly similar to go-rich sequence ESTs ESTs	0.46 0.46 0.46	
108622 128286 105760	AA504744 AA101828 Al025771 AA338960	Hs.26461 Hs.189956 Hs.144090	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs	0.46 0.46 0.46 0.46	
108622 128286 105760 100020	AA504744 AA101828 Al025771 AA338960	Hs.26461 Hs.189956 Hs.144090 Hs.28170	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs AFFX control: BioB-3	0.46 0.46 0.46 0.46 0.46	
108622 128286 105760 100020 105209	AA504744 AA101828 Al025771 AA338960 AA205072	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein	0.46 0.46 0.46 0.46 0.46 0.47	
108622 128286 105760 100020 105209 111975	AA504744 AA101828 Al025771 AA338960 AA205072 R41724	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743 Hs.149566	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein ESTs	0.46 0.46 0.46 0.46 0.46 0.47 0.47	
108622 128286 105760 100020 105209 111975 114688	AA504744 AA101828 Al025771 AA338960 AA205072 R41724 AA121403	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743 Hs.149566	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein ESTs ESTs	0.46 0.46 0.46 0.46 0.46 0.47	
108622 128286 105760 100020 105209 111975 114688 116994 118401	AA504744 AA101828 Al025771 AA338960 AA205072 R41724 AA121403 H83918 N64762	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743 Hs.149566 Hs.144331	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein ESTs ESTs ESTs	0.46 0.46 0.46 0.46 0.46 0.47 0.47	
108622 128286 105760 100020 105209 111975 114688 116994 118401 110997	AA504744 AA101828 Al025771 AA338960 AA205072 R41724 AA121403 H83918 N64762 N52540	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743 Hs.149566 Hs.144331 Hs.40528 Hs.49053 Hs.74316	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein ESTs ESTs ESTs ESTs ESTs EST desmoplakin (DPI; DPII)	0.46 0.46 0.46 0.46 0.47 0.47 0.47 0.47 0.47 0.47	
108622 128286 105760 100020 105209 111975 114688 116994 118401 110997 123791	AA504744 AA101828 Al025771 AA338960 AA205072 R41724 AA121403 H83918 N64762 N52540 AA620331	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743 Hs.149566 Hs.144331 Hs.40528 Hs.49053 Hs.74316 Hs.245351	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein ESTs ESTs ESTs ESTs ESTs EST desmoplakin (DPI; DPII) EST	0.46 0.46 0.46 0.46 0.47 0.47 0.47 0.47 0.47 0.47 0.47	
108622 128286 105760 100020 105209 111975 114688 116994 118401 110997 123791 109858	AA504744 AA101828 AI025771 AA338960 AA205072 R41724 AA121403 H83918 N64762 N52540 AA620331	Hs.26461 Hs.189956 Hs.144090 Hs.28170 Hs.227743 Hs.149566 Hs.144331 Hs.40528 Hs.49053 Hs.74316 Hs.245351 Hs.167451	ESTs; Weakly similar to go-rich sequence ESTs ESTs ESTs ESTs AFFX control: BioB-3 KIAA0980 protein ESTs ESTs ESTs ESTs ESTs EST desmoplakin (DPI; DPII) EST	0.46 0.46 0.46 0.46 0.47 0.47 0.47 0.47 0.47 0.47	

130606 AA402109	Hs.16593	ESTs	0.47
116067 AA454827	Hs.124823	ESTs	0.47
125881 AA775807	Hs.150741	2';3'-cyclic nucleotide 3' phosphodieste	0.47
124028 F04112	Hs.177178	ESTs	0.47
108995 AA155574	Hs.172702	ESTs	0.47
125102 T95105	Hs.173772	ESTs	0.47
110421 H48462	Hs.36093	ESTs; Wealdy similar to reverse transcri	0.47
105658 AA282914	Hs.10176	ESTs	0.47
129046 AA195678	Hs.108258	actin binding protein; macrophin (microf	0.47
113639 T95128	Hs.17529	ESTs	0.48
132575 AA045365	Hs.5188	ESTs; Wealdy similar to 60S RIBOSOMAL P	R0.48
132592 AA129390	Hs.5285	ESTs	0.48
107619 AA004955	Hs.60015	ESTs	0.48
118664 N70907	Hs.230619	EST	0.48
127612 AA917801	Hs.116076	ESTs	0.48
112319 R55615	Hs.26432	ESTs; Weakly similar to finger protein H	0.48
113635 T95087	Hs.15543	ESTs	0.48
119344 T62969	Hs.193348	ESTs	0.48
121080 AA398720	Hs.177953	ESTs	0.48
133686 X83378	Hs.211614	chloride channel 6	0.48
130395 R54534	Hs.87889	helicase-moi	0.49
127530 AA563806	Hs.145728	ESTs	0.49
132971 AA033951	Hs.61700	ESTs	0.49
127132 AA721156	Hs.190440	ESTs	0.49
129980 T72661	Hs.13969	ESTs	0.49
105323 AA234112	Hs.29075	ESTs	0.49
114439 AA018937	Hs.128629	ESTs	0.49
107632 AA007242	Hs.60179	EST	0.49
130952 AB002296	Hs.21560	Human mRNA for KIAA0298 gene; complete	
127595 AA927308	Hs.130464		0.49
124276 H83465	Hs.221934	ESTs	0.49
125935 H30721	Hs.30172	ESTs	0.49
131275 U45974	Hs.25156	Human phosphatidylinositol (4;5) bisphos	0.49
131196 C20633	Hs.24129	ESTs	0.49
125505 Al127843	Hs.155071	ESTs	0.5
113327 T71776	Hs.12097	ESTs	0.5
104709 AA017146		ESTs; Moderately similar to IIII ALU SUB	0.5
115772 AA423972	Hs.8154	ESTs	0.5
118296 N63150	Hs.48723	ESTs	0.5
131453 C20596	Hs.26985	KIAA0457 protein	0.5
104734 AA019528		ESTs	0.5
119358 T70550	Hs.193651	ESTs; Weakly similar to alternatively sp	0.5

Table 19: B survivor vs Mets – Up in B survivor

Pkey: Unique Eos probeset identifier number
ExAcca: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_ID	Complete Title	Ratio BS/Met
333601			CH22_FGENES.213_4	5.5
325300				4.67
333642				4.64
333591				4.46
332859			CH22_FGENES.27_2	4.39
304013	AW518573	Hs.156110	Immunoglobulin kappa variable 1D-8	4.23
333791				4.18
327641				4.03
_	H49160	Hs.133472		3.9
334125				3.88
333646				3.88
326554				3.84
333650				3.82
333647				3.79
333626	AMPROCES	Un 494044	- -: -	3.68 3.68
		Hs.131914		3.67
333657	M1420020	Hs.161282		3.65
338522				3.64
329464			CH.Y_hs gij6456788	3.6
328868			CH.07_hs gi 6381930	3.6
333637			CH22_FGENES.229_2	3.59
329737				3.5
	Al791749	Hs.128896		3.44
	M96995	Hs.6289		3.44
339271			CH22_BA354I12.GENSCAN.11-2	3.44
314927	AI735482	Hs.159580	ESTs	3.42
334782			CH22_FGENES.432_7	3.42
313138	AW138842	Hs.196669	ESTs	3.4
	H51596	Hs.5541	ATPase; Ca++ transporting; ubiquitous	3.38
338648			CH22_EM:AC005500.GENSCAN.460-6	3.38
325677			CH.14_hs gl 5867017	3.34
	H50648	Hs.213221	ESTs; Weakly similar to !!!! ALU SUBFAMI	3.33
326545	D44040	11- 400000	CH.19_hs gi 5867307	3.32
	R44616	HS.130200	ESTs; Moderately similar to IIII ALU SUB	3.3
	Al625428		EST singleton (not in UniGene) with exon	3.26 3.26
328569 328582			CH.07_hs gij6004480 CH.07_hs gij6006033	3.24
	Al492857	Hs.170940		3.24
336883	AHULUUI	113.170070	CH22_FGENES.322-2	3.21
	AW236939	Hs.172154		3.2
337870		*********	CH22 EM:AC005500.GENSCAN.48-3	3.19
	Al001043		EST singleton (not in UniGene) with exon	3.17
	Z45264		EST cluster (not in UniGene)	3.16
335247			CH22_FGENES.516_8	3.12
	AA088768		EST cluster (not in UniGene)	3.1
319468	R06504		EST cluster (not in UniGene)	3.09
301635	AI590720	Hs.192662	ESTs; Weakly similar to ZINC FINGER PROT	
321215	AW378128	Hs.120243	ESTs; Weakly similar to CGI-56 protein [3.04
328507			CH.07_hs gi[5868473	3.03
330266			CH.05_p2 gij6671885	3.02
326249			CH.17_hs glj5867263	3.01
325649	AA496437		CH.14_hs gi[6588011 EST singleton (not in UniGene) with exon	2.99 2.98
	AA488050		EST singleton (not in UniGene) with exon	2.97
338412	COTOGGG		CH22_EM:AC005500.GENSCAN.341-25	2.96
300412	A1769997		EST singleton (not in UniGene) with exon	2.95
313027		Hs.184003	ESTs; Wealdy similar to IIII ALU SUBFAMI	2.95
306590			EST singleton (not in UniGene) with exon	2.95
306183	AA922622		EST singleton (not in UniGene) with exon	2.94
308611	Al735372	Hs.203820	EST: Moderately similar to TRANSLATIONAL	
332454	T63265	Hs.11186	ESTs; Weakly similar to transformation-r	2.94
			•	

330061			CH.17_p2 gij6721261	2.94
	AW138139	Hs.244598		2.93
338705			CH22_EM:AC005500.GENSCAN.480-4	2.93
333737			CH22_FGENES.261_1	2.9
337756			CH22_EM:AC000097.GENSCAN.109-3	2.9
333572			CH22_FGENES.189_1	2.89
335349			CH22_FGENES.539_2	2.89
328835			CH.07_hs gij5868339	2.89
319886	AA984628		EST cluster (not in UniGene)	2.88
311247	Al655313	Hs.197692	ESTs	2.87
303887	R72672	Hs.193484	ESTs; Weakly similar to Similarity with	2.86
337564			CH22_C65E1.GENSCAN.1-7	2.85
333225			CH22_FGENES.107_3	2.84
314938	AA515635		EST cluster (not in UniGene)	2.83
	AA846052		EST singleton (not in UniGene) with exon	2.83
	AA679505		EST singleton (not in UniGene) with exon	2.83
	AA386264	Hs 5337	isocitrate dehydrogenase 2 (NADP+); mito	2.81
338508		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CH22_EM:AC005500.GENSCAN.391-1	2.81
	Al475411		EST singleton (not in UniGene) with exon	2.81
		He 14941R	ESTs; Weakly similar to salivary proline	2.8
325571	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CH.12_hs gl[6552439	2.8
	Al148181	Hs.176835		2.8
337456	A1140101	113.170000	CH22_FGENES.777-2	2.79
	A1797066	Hs.201995	-	2.79
	AA065003			2.78
333717	~~~~~	110.04117	hypothetical protein	2.76
	AW505368		CH22_FGENES.253_3 EST cluster (not in UniGene) with exon h	2.76
	AA602697			2.76
			EST singleton (not in UniGene) with exon	2.75
	R00371		EST cluster (not in UniGene)	
336072			CH22_FGENES.685_4	2.74
	AA897764		EST singleton (not in UniGene) with exon	2.74
336127			CH22_FGENES.701_15	2.74
337355			CH22_FGENES.728-1	2.73
337885			CH22_EM:AC005500.GENSCAN.54-3	2.73
	AI686791		ribosomal protein L3	2.73
	AA152119	Hs.155101	ATP synthase; H+ transporting; mitochond	2.73
333043			CH22_FGENES.70_4	2.72
327736			CH.05_hs gi 5867940	2.72
333007			CH22_FGENES.60_4	2.72
	AL122111	11- 450075	EST cluster (not in UniGene)	2.72
	AW452576			2.72
	AAQUSOZO	MS. 1 12900	Homo saplens Tax interaction protein 40	2.71
326224 329114			CH.17_hs gij5867230	2.7
			CH.X_hs gi 5868650 CH22_FGENES.196_2	2.69
333577	AW090347	He 242442	ECT.	2.67
	R07994	113.243443	EST singleton (not in UniGene) with exon	2.67
	A1935304	Un 425262		2.67
	A1933304	MS, 12020Z	DKFZP586G1624 protein	2.66
337848			CH22_EM:AC005500.GENSCAN.33-1	2.66
327946	A A007570		CH.06_hs gi 5868208	2.66
	AA937573	II- 000E00	EST singleton (not in UniGene) with exon	
-	R01646	Hs.200538		2.65
	AA587541	11- 400007	EST singleton (not in UniGene) with exon	2.65
	AI860987	Hs.189097		2.65
	A1767957	HS.19//3/	ESTs; Weakly similar to Y38A8.1 gene pro	2.65
338843			CH22_DJ246D7.GENSCAN.8-1	2.64
335720			CH22_FGENES.599_23	2.64
333670	A1000E04		CH22_FGENES.245_4	2.64
	AI803591	Hs.209667		2.64
335750			CH22_FGENES.602_4	2.63
333240	B70040		CH22_FGENES.111_4	2.63
	R70212	Hs.79630	CD79A antigen (immunoglobulin-associated	2.62
338747			CH22_EM:AC005500.GENSCAN.511-1	2.62
	AA377444		EST cluster (not in UniGene) with exon h	2.62
336898			CH22_FGENES.330-1	2.62
325835	E40440		CH.16_hs gij6552452	2.62
	F13112		EST cluster (not in UniGene) with exon h	2.61
335968			CH22_FGENES.652_1	2.61
336705	*******		CH22_FGENES.63-2	2.6
	AW292760		EST singleton (not in UniGene) with exon	2.6
339220	A 1700050		CH22_FF113D11.GENSCAN.6-15	2.6
	AI709056		EST singleton (not in UniGene) with exon	2.6
334260	A18/4 40070		CH22_FGENES.367_8	2.6
309963	AW449073	Un 400000	EST singleton (not in UniGene) with exon	2.6 2.59
3001/8	A1282665	ns. 100309	CHOS ECENTE FOR F	2.59
335690			CH22_FGENES.596_5	د.J

308127	A1492187		EST singleton (not in UniGene) with exon	2.59	
337835			CH22_EM:AC005500.GENSCAN.22-4	2.58	
333251			CH22_FGENES.116_3	2.58	
330319			CH.08_p2 gi[5932415	2.58	
	AI758114	Hs.197032		2.57	
	AA010013	Hs.75442	albumin	2.57	
329665			CH.14_p2 gi[6272129	2.57	
328558			CH.07_hs gi 5868489	2.57	
336094			CH22_FGENES.691_3	2.57	
307899	A1380270		EST singleton (not in UniGene) with exon	2.57	
339312			CH22_BA354I12.GENSCAN.22-10	2.57	
336442			CH22_FGENES.827_8	2.57	
	R60848		EST cluster (not in UniGene)	2.56	
	HG2689-H	F2796	Mucin 5b. Tracheobronchial (Gb:X74955)	2.56	
	NG200341	12/05			
327304	41000707		CH.01_hs gi 5867494	2.56	
	AI830787		EST singleton (not in UniGene) with exon	2.55	
302224	Al951549	Hs.161166	KIAA1094 protein	2.55	
304324	AA137045		EST singleton (not in UniGene) with exon	2.54	
338090			CH22_EM:AC005500.GENSCAN.176-3	2.53	
334797			CH22_FGENES.434_5	2.52	
	AL043430	•	EST cluster (not in UniGene) with exon h	2.52	
339037	ALD40400			2.52	
			CH22_DA59H18.GENSCAN.26-5		
327846			CH.05_hs gi 6531962	2.52	
325271			CH.11_hs gi 5866901 .	2.52	
312385	R42885	Hs.215555		2.51	
302816	AI733918	Hs.204112	ESTs; Weakly similar to alternatively sp	2.51	
316941	AW449871	Hs.124591		2.5	
	Al285912			2.5	
333762	ALLOUD IL	113.201010	CH22_FGENES.270_2	2.5	
	A ADCCCCC	U- 400444			2.5
	AA302023	MS. 109 144	ESTs; Weakly similar to RENAL SODIUM-D		2.0
326266			CH.17_hs gij5867264	2.49	
326005			CH.16_hs gi 5867112	2.49	
301971	AJ003125	Hs.120330	a disintegrin-like and metalloprotease (2.48	
326539			CH.19_hs gij5867307	2.48	
338896			CH22_DJ32i10.GENSCAN.9-4	2.48	
306773	AI040750		EST singleton (not in UniGene) with exon	2.47	
336279			CH22_FGENES.763_3	2.47	
	VI UEU34E	Ha 227627	hypothetical protein	2.47	
		N3.22/03/			
	AA908609		EST singleton (not in UniGene) with exon	2.47	
333216			CH22_FGENES.104_8	2.46	
338593			CH22_EM:AC005500.GENSCAN.435-2	2.46	
333587			CH22_FGENES.205_2	2.46	
300396	AW295466	Hs.232051	ESTs	2.45	
304693	AA554263		EST singleton (not in UniGene) with exon	2.45	
338934			CH22_DJ32I10.GENSCAN.18-2	2.45	
325751			CH.14_hs gij6682474	2.45	
				= ::	
334137			CH22_FGENES.337_1	2.45	
333581			CH22_FGENES.200_1	2.45	
	AI422807	Hs.134012	C1q-related factor	2.44	
307318	A1208577		EST singleton (not in UniGene) with exon	2.44	
302181	AW374284	Hs.157732	Homo sapiens chromosome 19; cosmid R26	89	2.44
337425			CH22_FGENES.761-1	2.44	
336227			CH22_FGENES.730_2	2.44	
314657	AI015953	Hs.125265		2.44	
338529			CH22_EM:AC005500.GENSCAN.398-10	2.44	
333680			CH22_FGENES.247_7	2.43	
	A 1002259	Hs.250891		2.43	
		ns.200091			
	AA642917		EST singleton (not in UniGene) with exon	2.43	
335787			CH22_FGENES.611_3	2.43	
	AI655206	Hs.121512	ESTs; Moderately similar to kinesin like	2.43	
329382			CH.X_hs gij5868868	2.42	
334785			CH22_FGENES.432_10	2.42	
330130			CH.21_p2 gi 6002196	2.42	
327206			CH.01_hs gij5867447	2.41	
310235	E44000	Hs.177633		2.41	
334691	F11330				
JUNUS 1	F11330	115.177000			
227540	F11330	113.177000	CH22_FGENES.420_4	2.4	
327610	F11330	113.177000	CH22_FGENES.420_4 CH.04_hs glj5867868	2.4 2.4	
327646	F11330	115.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894	2.4 2.4 2.4	
327646 337093	F11330	113.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18	2.4 2.4 2.4 2.4	
327646 337093 335081	F11330	113.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18 CH22_FGENES.488_4	2.4 2.4 2.4 2.4 2.4	
327646 337093	F11330	113.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18	2.4 2.4 2.4 2.4 2.4 2.4	
327646 337093 335081	F11330	113.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18 CH22_FGENES.488_4 CH22_FGENES.193_2 CH22_C20H12.GENSCAN.16-5	2.4 2.4 2.4 2.4 2.4	
327646 337093 335081 333576 337604	F11330	113.177055	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18 CH22_FGENES.488_4 CH22_FGENES.193_2 CH22_C20H12.GENSCAN.16-5	2.4 2.4 2.4 2.4 2.4 2.4	
327646 337093 335081 333576 337604 329879	F1133U	18.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18 CH22_FGENES.488_4 CH22_FGENES.193_2 CH22_C20H12.GENSCAN.16-5 CH.15_p2 glj6466518	2.4 2.4 2.4 2.4 2.4 2.4 2.4	
327646 337093 335081 333576 337604 329879 328444	F11330	18.177000	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18 CH22_FGENES.488_4 CH22_FGENES.193_2 CH22_C20H12_GENSCAN.16-5 CH.15_p2 glj5466518 CH.07_hs glj5868420	2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.39	
327646 337093 335081 333576 337604 329879 328444 335700	F11330 Z41009	Hs.21446	CH22_FGENES.420_4 CH.04_hs glj5867868 CH.04_hs glj5867894 CH22_FGENES.465-18 CH22_FGENES.488_4 CH22_FGENES.193_2 CH22_C20H12.GENSCAN.16-5 CH.15_p2 glj5466518 CH.07_hs glj5868420 CH22_FGENES.598_1	2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.39 2.39	2.39

327927			CH.06_hs gi 5868173	2.39
334354			CH22_FGENES.377_1	2.39
	AI689279		EST singleton (not in UniGene) with exon	2.39
303669	AW499648	Hs.233750	copine V	2,39
333648			CH22_FGENES.237_2	2.38
318318	AI653893	Hs.174463	ESTs; Weakly similar to alpha3b subunit	2.38
338336			CH22 EM:AC005500.GENSCAN.310-8	2.38
304125	H40076		EST singleton (not in UniGene) with exon	2.38
	AA617786			2.38
	MAD 17 700		EST singleton (not in UniGene) with exon	
334935			CH22_FGENES.464_3	2.38
	AW170057		ESTS	2.38
330406		Hs.76901	for protein disulfide isomerase-related	2.38
307646	Al302236		EST singleton (not in UniGene) with exon	2.38
338911			CH22_DJ32I10.GENSCAN.11-3	2.38
319952	T79532	Hs.225725	ESTs; Moderately similar to CGI-101 prot	2.37
336878			CH22_FGENES.318-5	2.37
338140			CH22_EM:AC005500.GENSCAN.203-6	2.37
	A1202070	Un OOFFOO		2.37
	AI383878	Hs.225588		
	AA523976		EST singleton (not in UniGene) with exon	2.37
334091			CH22_FGENES.327_47	2.37
336328			CH22_FGENES.812_7	2.37
325310			CH.11_hs gij5866864	2.37
338043			CH22_EM:AC005500.GENSCAN.153-2	2.37
	Al161024		EST singleton (not in UniGene) with exon	2.37
335768	71101027		CH22_FGENES.607_2	2.37
				
334969			CH22_FGENES.466_2	2.37
333640			CH22_FGENES.230_2	2.36
330002			CH.16_p2 gi 6623963	2.36
338829			CH22_DJ246D7.GENSCAN.5-12	2.36
323808	AW250114		EST cluster (not in UniGene)	2.36
327755			CH.05_hs gij5867955	2.35
	AA975039		EST singleton (not in UniGene) with exon	2.35
336481	74-37-3003			2.35
			CH22_FGENES.830_1	
335163			CH22_FGENES.502_7	2.35
	AL137357		EST cluster (not in UniGene)	2.35
337345			CH22_FGENES.723-1	2.35
334625			CH22_FGENES.414_3	2.35
320957	A1878933		EST cluster (not in UniGene)	2.35
334915			CH22_FGENES.457_4	2.35
336295			CH22_FGENES.787_1	2.35
321556	NASADO	Hs.14570	ESTs	2.35
	1440402	1 13. 1707 0		2.35
338491			CH22_EM:AC005500.GENSCAN.385-2	
335517			CH22_FGENES.571_34	2.34
330639		Hs.75854	SULT1C sulfotransferase	2.34
310383	AI263102		ESTS	2.34
331526	N49967	Hs.46624	ESTs	2.34
334396			CH22_FGENES.381_2	2.34
332993			CH22_FGENES.57_2	2.34
327487			CH.02_hs gi 5867785	2.34
335920			CH22_FGENES.636_16	2.33
336463			CH22_FGENES.829_22	2.33
	744240			2.33
319000	244310		EST cluster (not in UniGene)	
332992			CH22_FGENES.57_1	2.33
332920			CH22_FGENES.37_6	2.33
337590			CH22_C20H12.GENSCAN.6-5	2.33
327059			CH.21_hs gi 6531965	2.33
334399			CH22_FGENES.382_5	2.33
300982	AA837754		EST cluster (not in UniGene) with exon h	2.32
327430			CH.02_hs gij5867754	2.32
326808			CH.20_hs gi]6682504	2.32
	AW015373		EST singleton (not in UniGene) with exon	2.32
	VIIO 1991.9			2.32
329779	1400000	11-04470	CH.14_p2 gij6002090	
	M25809	Hs.64173	ATPase; H+ transporting; lysosomal (vacu	2.31
330080			CH.19_p2 gU6015314	2.31
334342			CH22_FGENES.375_20	2.31
336306			CH22_FGENES.793_5	2.31
336400			CH22_FGENES.823_15	2.31
	AA323714		EST cluster (not in UniGene)	2.31
334496			CH22_FGENES.397_12	2.31
336075			CH22_FGENES.687_1	2.31
335566			CH22_FGENES.580_1	2.31
			CH22 FM-ACOCOCO CENSCAN 22 C	2.31
337657			CH22_EM:AC000097.GENSCAN.32-9	
327816	41070400		CH.05_hs gi[5867968	2.3
	A1672480		EST singleton (not in UniGene) with exon	2.3
330112			CH.19_p2 gij6015238	2.3
304465	AA421948		EST singleton (not in UniGene) with exon	2.3

	Al660854		EST singleton (not in UniGene) with exon	2.3
328171			CH.06_hs glj5868071	2.3
328271 328803			CH.06_hs gij6552415	2.3
330063			CH.07_hs gli6004475	2.3 2.29
	H11643		CH.19_p2 gij6165044 EST cluster (not in UniGene)	2.29
328974	1111040		CH.09_hs gij5868520	2.29
333859			CH22_FGENES.290_18	2.29
326253			CH.17_hs gi[5867263	2.29
325703			CH.14_hs gij5867028	2.29
338925			CH22_DJ32i10.GENSCAN.14-3	2.29
328552			CH.07_hs gl 5868489	2.29
337244	A 1720700	11- 407004	CH22_FGENES.646-8	2.29
	AI732722 AW502208	Hs.187694		2.29 2.29
		Hs.156398	EST duster (not in UniGene)	2.29
337363	A11070000	113.10000	CH22_FGENES.733-2	2.29
	Al440174	Hs.228907	EST; Weakly similar to GUANINE NUCLEOT.	
	Al961962		EST singleton (not in UniGene) with exon	2.28
337455			CH22_FGENES.777-1	2.28
327605			CH.03_hs gij6004463	2.28
	W22172	Hs.59038	ESTs	2.28
	A1206964	Hs.130051	=	2.28
338278 337291			CH22_EM:AC005500.GENSCAN.290-3	2.28 2.27
337913			CH22_FGENES.673-2 CH22_EM:AC005500.GENSCAN.59-10	2.27
	AA971973		EST singleton (not in UniGene) with exon	2.27
332947			CH22_FGENES.47_10	2.27
321763	W01148		EST cluster (not in UniGene)	2.27
304424	AA293494		EST singleton (not in UniGene) with exon	2.27
	T64737		EST cluster (not in UniGene) with exon h	2.27
326943			CH.21_hs gi 6004446	2.27
	R14439	Hs.209194		2.27
325480 327743			CH.12_hs gij5866957	2.27 2.27
333221			CH.05_hs gij5867944 CH22_FGENES.105_1	2.26
336498			CH22_FGENES.833_3	2.26
	H84421		EST cluster (not in UniGene)	2.26
334191			CH22_FGENES.352_6	2.26
327089			CH.21_hs gij6531965	2.26
	F18939	Hs.153827		2.26
	R08577	11- 400040	EST singleton (not in UniGene) with exon	2.25
	X86371	Hs.95659	ESTs; Moderately similar to IIII ALU SUB	2.25 2.25
	Al302103	NS.50005	lethal giant larvae (Drosophila) homolog EST singleton (not in UniGene) with exon	2.25
336985	71002100		CH22_FGENES.402-6	2.25
334425			CH22_FGENES.384_13	2.25
321216	AI078042	Hs.126691	ESTs	2.25
		Hs.150319	-	2.25
		Hs.124580		2.25
	AA284858		ESTs	2.25
317131	Al991125	Hs.189109	CH22_FGENES.358_1	2.25 2.24
334216 330330			CH.08_p2 gij5670267	2.24
326923			CH.21_hs gij6456782	2.24
333774			CH22_FGENES.272_5	2.24
324311	AA443061	Hs.202520		2.24
338551			CH22_EM:AC005500.GENSCAN.413-2	2.24
	AI024916	Hs.251354		2.24
337689	Al192520	Uo 4.47470	CH22_EM:AC000097.GENSCAN.77-5	2.24 2.23
334617	A1192320	Hs.147178	CH22_FGENES.411_16	2.23
336890			CH22_FGENES.326-10	2.23
334495			CH22_FGENES.397_10	2.23
327301			CH.01_hs gi[5867493	2.23
337856			CH22_EM:AC005500.GENSCAN.41-3	2.23
	AI150424	Hs.146817		2.23
	M85247		H.sapiens dopamine D1A receptor gene, co	2.22
325943 338947			CH.16_hs gij5867138 CH22_DJ32i10.GENSCAN.21-4	2.22 2.22
	AW197361	Hs.131360		2.22
332458	M33493		tryptase; alpha	2.22
333195			CH22_FGENES.98_17	2.22
304837	AA587139		EST singleton (not in UniGene) with exon	2.22
307602	Al288843	Hs.231239	EST	2.22
337078			CH22_FGENES.457-1	2.22

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335862				
201070	L28168	Un 40440E	CH22_FGENES.629_7	2.22 2.22
335668	L20 100	NS. 121490	potassium voltage-gated channel; Isk-rel CH22 FGENES.590 19	2.22
	AA639618		EST singleton (not in UniGene) with exon	2.21
329034			CH.X_hs glj5868561	2.21
	Al131241	Hs.143234		2.21
328058				2.21
335513	AA004699	Un 1ENEON		2.21 2.21
331427	H54764	Hs.237339		2.21
338973	1101101	1101207000	CH22_DJ32I10.GENSCAN.27-6	2.2
336723			CH22_FGENES.85-3	2.2
327290			CH.01_hs glj5867483	2.2
337240	A A0000040		CH22_FGENES.644-1	2.2
	AA926818	He 126262	EST singleton (not in UniGene) with exon ESTs; Highly similar to FIBRILLARIN [H.s	2.2 2.2
334517	777000707	113.120203	CH22_FGENES.399_7	2.2
334189				2.2
335199				2.2
333705			CH22_FGENES.250_19	2.2
	AA845324		EST singleton (not in UniGene) with exon	2.2 2.2
	AA316069 W85694	Hs.118335	EST cluster (not in UniGene) with exon h	2.2
329158	1100007	113.1 10000	CH.X_hs gij5868687	2.2
337551			CH22_FGENES.847-8	2.2
328792			CH.07_hs gi 5868309	2.2
	AW502711		EST cluster (not in UniGene) with exon h	2.19
	AW502466 Z45529	Hs.92030		2.19 2.19
333773	240029	HS.32U3U		2.19
337906				2.19
327129				2.19
305710	AA826544			2.19
335595			*··	2.19
323646	AA310926	HS.154412	= 7.1° 5	2.19 2.19
325802			CH.07_hs gij5868388 CH.14_hs gij6552451	2.19
337167				2.19
	AA635756		EST singleton (not in UniGene) with exon	2.18
	AW245524	Hs.121590	ESTs; Weakly similar to ZINC FINGER PROT	
332790				2.18
336750	AI520706	Hs.171012		2.18 2.18
329798	, 4020, 00			
007040				2.18
327012				2.18 2.18
304599	AA506638		EST singleton (not in UniGene) with exon	2.18 2.18
304599 335351		H- 222000	EST singleton (not in UniGene) with exon CH22_FGENES.539_4	2.18 2.18 2.18
304599 335351 310661	AA506638 Al354717	Hs.223908	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs	2.18 2.18 2.18 2.18
304599 335351 310661 332791		Hs.223908	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1	2.18 2.18 2.18 2.18 2.18 2.17
304599 335351 310661 332791 333022			EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs	2.18 2.18 2.18 2.18
304599 335351 310661 332791 333022 310502 324963	Al354717		EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene)	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275	Al354717 Al458973		EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs glj5866902	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328338	Al354717 Al458973		EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs glj5866902 CH.07_hs glj5868377	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328338 333063	Al354717 Al458973 AA853440		EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST ctuster (not in UniGene) CH.11_hs gij5866902 CH.07_hs gij5868377 CH22_FGENES.75_6	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328338 333063	Al354717 Al458973		EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs gij5866902 CH.07_hs gij5868377 CH22_FGENES.75_6	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328338 333063 308895 338685 325655	Al354717 Al458973 AA853440 Al858423	Hs.170422	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs glj5866902 CH.07_hs glj5868377 CH22_FGENES.75_6 EST singleton (not in UniGene) with exon CH22_EMAC005500.GENSCAN.472-4 CH.14_hs glj5867007	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 32833 333063 308895 338685 325655 332420	Al354717 Al458973 AA853440	Hs.170422	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs glj5866902 CH.07_hs glj5866902 CH.07_hs glj6868377 CH22_FGENES.75_6 EST singleton (not in UniGene) with exon CH22_EM:AC005500.GENSCAN.472-4 CH.14_hs glj5867007 ESTs; Weakty similar to CEREBELLIN 1 PRE	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328333 333063 338685 338685 325655 332420 337216	Al354717 Al458973 AA853440 Al858423	Hs.170422	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs glj5866902 CH.07_hs glj5868377 CH22_FGENES.75_6 EST singleton (not in UniGene) with exon CH22_EM:AC005500.GENSCAN.472-4 CH.14_hs glj5867007 ESTs; Weakly similar to CEREBELLIN 1 PRE CH22_FGENES.613-10	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328338 333063 308895 338695 332655 332420 337216 335660	Al354717 Al458973 AA853440 Al858423	Hs.170422	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_Ins gli5866902 CH.07_hs gli5866902 CH.07_hs gli5868377 CH22_FGENES.75_6 EST singleton (not in UniGene) with exon CH22_EM:AC005500.GENSCAN.472-4 CH.14_Ins gli5867007 ESTs; Weakly similar to CEREBELLIN 1 PRE CH22_FGENES.613-10 CH22_FGENES.6590_11	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.16 2.16 2.16 2.16 2.16
304599 335351 310661 332791 333022 310502 324963 325275 328333 333063 338685 338685 325655 332420 337216	Al354717 Al458973 AA853440 Al858423	Hs.170422	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_Ins gij5866902 CH.07_Ins gij5868377 CH22_FGENES.75_6 EST singleton (not in UniGene) with exon CH22_EM:AC005500.GENSCAN.472-4 CH.14_Ins gij5867007 ESTs; Weakly similar to CEREBELLIN 1 PRE CH22_FGENES.613-10 CH22_FGENES.590_11 CH22_FGENES.542-2	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.17
304599 335351 310661 332791 333022 310502 324963 325275 328338 333685 338685 338685 332420 337216 3356145 3357145 335753 301766	AI354717 AI458973 AA853440 AI858423 H49570 R02224	Hs.170422 Hs.108074	EST singleton (not in UniGene) with exon CH22_FGENES.539_4 ESTs CH22_FGENES.3_1 CH22_FGENES.65_1 ESTs EST cluster (not in UniGene) CH.11_hs glj5866902 CH.07_hs glj5868377 CH22_FGENES.75_6 EST singleton (not in UniGene) with exon CH22_EMAC005500.GENSCAN.472-4 CH.14_hs glj5867007 ESTs; Weakly similar to CEREBELLIN 1 PRE CH22_FGENES.613-10 CH22_FGENES.613-10 CH22_FGENES.590_11 CH22_FGENES.590_2 EST cluster (not in UniGene) with exon h	2.18 2.18 2.18 2.18 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.16 2.16 2.16 2.16 2.16 2.16 2.16 2.16
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336910	331732	AA251192	Hs.177708		2.12	
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325947 CH.16_hs gij5867138 2.1 337683 CH22_EMAC000097.GENSCAN.76-1 2.1		AW008544	Hs.239994			
337683 CH22_EM:AC000097.GENSCAN.76-1 2.1						
337665 CH2Z_EMACURUUS/.GENSCAN./6-1 2.1 328962 CH.08_hs g [6456775 2.1				CH.16_hs gip86/138		
328902 CH.U8_ns gl[6450775 2.1	337683					
	328962				4.1	

				0.4
336655 336596				2.1 2.1
	M13755	He 833	· · · · · · · · · · · · · · · · · · ·	2.1
		Hs.125143		2.09
		Hs.162108		2.09
336650			CH22_FGENES.29-6	2.09
339026				2.09
302395	AW297357	Hs.114606		2.09
323280	Al910263			2.09
335374				2.09 2.09
	AI808510			2.09
	N48584	Hs.6168	KIAA0703 gene product	2.09
337853			CH22_EM:AC005500.GENSCAN.37-1	2.09
	NM_002991		EST cluster (not in UniGene) with exon h	2.09
		Hs.169375		2.09
	Z44049	Hs.135562	ESTs; Weakly similar to cDNA EST EMBL:D3	2.09
333280	A1142070	113.105502	CH22_FGENES.126_2	2.09
333518			CH22_FGENES.173_3	2.09
337199			CH22_FGENES.583-11	2.09
337819			CH22_EM:AC005500.GENSCAN.13-9	2.08
		Hs.250913		2.08 2.08
336028	AAJO440Z	ns.590/5	ESTs; Weakly similar to WD40 protein Cia CH22_FGENES.672_1	2.08
	AI394673	Hs.254030	ESTs	2.08
	A1243573		EST singleton (not in UniGene) with exon	2.08
326444			CH.19_hs gij5867385	2.08
	AI345597	Hs.254727	ESTs	2.08
337633			CH22_C20H12.GENSCAN.32-1	2.08
336008 339030			CH22_FGENES.000_0	2.08 2.08
333952			CH22_EASSITIO.GENGOAN.2471	2.08
329149			CH.X_hs gij5868685	2.08
335192			CH22_FGENES.507_7	2.08
308225	AI557713	Hs.177592	ribosomal protein; large; P1	2.08
				2.08
331809	AA4U2462 A IOO3660	Hs.97312 Hs.246171	ESTs ESTs	2.07 2.07
	D00749			2.07
327291			CH.01_hs gij5867483	2.07
			ESTs; Moderately similar to IIII ALU SUB	2.07
		Hs.129419		2.07
328674			CH.07_hs gi 5868254	2.07 2.07
338654	A 1012500	He 104728	CH22_EM:AC005500.GENSCAN.460-55 hexose-6-phosphate dehydrogenase (glucos	
337896	A00 12000	113.137720	CH22_EM:AC005500.GENSCAN.56-3	2.07
335310			CH22_FGENES.532_3	2.07
		Hs.145223		2.07
303588	AL046182		EST cluster (not in UniGene) with exon h	2.07
320040	C18060		CH.07_hs gij6381921 EST cluster (not in UniGene)	2.07 2.07
335352	C 10000		CH22_FGENES.539_5	2.07
339316			CH22_BA354112.GENSCAN.22-15	2.06
335873			CH22_FGENES.631_1	2.06
335261			CH22_FGENES.520_2	2.06
	AL079807		EST cluster (not in UniGene) EST singleton (not in UniGene) with exon	2.06 2.06
	Al809301 Al252661	Hs.145224		2.06
	R36212	Hs.235534		2.06
	T74062		EST cluster (not in UniGene)	2.06
334642			CH22_FGENES.417_9	2.06
335767			CH22_FGENES.607_1	2.06
336159			CH22_FGENES.707_3	2.06
336358 334687			CH22_FGENES.818_1 CH22_FGENES.419_12	2.06 2.06
339389			CH22_BA232E17.GENSCAN.4-7	2.06
335898			CH22_FGENES.635_6	2.06
328847			CH.07_hs gij6381920	2.08
313431	W91884	Hs.159611	EST cluster (not in UniGene)	2.06 2.06
313270 339211		na. 1050 H	CH22_FF113D11.GENSCAN.6-6	2.06
333860			CH22_FGENES.290_19	2.06
308952	AI868157	Hs.224226	EST	2.06
305471	AA743947		EST singleton (not in UniGene) with exon	2.06
300619	AA991438	Hs.233293	ESTS	2.06

302962	AJ693349	Hs.228981	EST	2.06	
	AA112799	Hs.238756	ESTs; Weakly similar to unknown [H.saple	2.06	
334972			CH22_FGENES.468_2	2.05	
330196			CH.05_p2 gi 6165140	2.05	
	AA579795		EST singleton (not in UniGene) with exon	2.05	
	AW248521	Hs.195188		2.05	
333939			CH22_FGENES.301_5	2.05	
	AA587008		EST singleton (not in UniGene) with exon	2.05	
	AA324163		EST cluster (not in UniGene) with exon h	2.05	
	Al650714		EST singleton (not in UniGene) with exon	2.05	
	AA176914		EST singleton (not in UniGene) with exon	2.05	
333141		11- 450440	CH22_FGENES.85_1	2.05	
	AW292180	MS.10014Z		2.05	
337565	4.400.4000		CH22_C65E1.GENSCAN.1-11	2.05	
	AA084082		EST singleton (not in UniGene) with exon	2.05 2.05	
326624 326443			CH.20_hs gl 5867553	2.04	
339012			CH.19_hs gi 5867385	2.04	
337384			CH22_DA59H18.GENSCAN.19-2	2.04	
	T70622	Hs.111787	CH22_FGENES.745-1	2.04	
332326		H5.111/0/		2.04	
336046	AW501525		EST cluster (not in UniGene) with exon h CH22_FGENES.679_8	2.04	
	R05887		EST duster (not in UniGene) with exon h	2.04	
326726	N00001		CH.20_hs gi[5867597	2.04	
	M11186	He 113216	oxytocin; prepro- (neurophysin I)	2.04	
332956	14171100	113.1102.10	CH22_FGENES.48_13	2.04	
	M97935		AFFX control: STAT1	2.04	
	Al086920		EST singleton (not in UniGene) with exon	2.03	
302744			EST cluster (not in UniGene) with exon h	2.03	
338507	200 101		CH22_EM:AC005500.GENSCAN.390-11	2.03	
334020			CH22_FGENES.317_1	2.03	
333870			CH22_FGENES,291_3	2.03	
	U40223	Hs.248157	pyrimidinergic receptor P2Y; G-protein c	2.03	
335486			CH22_FGENES.570_18	2.03	
339374			CH22_BA232E17.GENSCAN.2-5	2.03	
328384			CH.07_hs gi[5868392	2.03	
334690			CH22_FGENES.420_3	2.03	
310318	AI733942	Hs.145338	ESTs	2.03	
325893			CH.16_hs gi 5867088	2.03	
	AA435513	Hs.178170	ESTs; Weakly similar to DUAL SPECIFICITY	2.03	
329784			CH.14_p2 gi 5912597	2.03	
335087			CH22_FGENES.488_11	2.03	
310582	Al336563	Hs.254585	ESTs	2.03	
332611	R06751	Hs.1600	chaperonin containing TCP1; subunit 5 (e	2.03	
339258			CH22_BA354I12.GENSCAN.8-3	2.03	
336851			CH22_FGENES.274-1	2.03	
305596	AA780664	Hs.8734	ESTs; Moderately similar to IIII ALU CLA	2.03	
330364			CH.X_p2 gl 3126882	2.03	
	AL137619		EST cluster (not in UniGene) with exon h	2.03	
		MS.126359	ESTs; Weakly similar to IIII ALU SUBFAMI	2.03	
	AW300314		EST singleton (not in UniGene) with exon	2.03	
333422			CH22_FGENES.147_2	2.03	
325233		11- 70504	CH.10_hs gij6381943	2.03	
	U77968	Hs.79564	neuronal PAS domain protein 1 CH22_FGENES.88-1	2.03 2.02	
336725			CH22_FGENES.340_7	2.02	
334157	AMOURSES	He 1506/3	ESTs; Weakly similar to MLD [H.saplens]	2.02	
328533	A11000302	113.103040	CH.07_hs gli5868482	2.02	
	Al962817		EST singleton (not in UniGene) with exon	2.02	
327412	A1302011		CH.02_hs gi 5867750	2.02	
333172			CH22_FGENES.94_7	2.02	
334869			CH22_FGENES.447_3	2.02	
	AA971465	Hs.116136		2.02	
329394			CH.X_hs gij6478817	2.02	
	F12128		EST cluster (not in UniGene) with exon h	2.02	
335591			CH22_FGENES.581_30	2.02	
338234			CH22_EM:AC005500.GENSCAN.260-7	2.02	
334433			CH22_FGENES.385_8	2.02	
334904			CH22_FGENES.452_18	2.02	
	AI939323		ESTs; Weakly similar to NEUR ACETYLCHO		2,02
300151	A1243445	Hs.189654		2.01	
310348	A1478563	Hs.145519		2.01	
	A1439868	Hs.165742		2.01	
332860	A1070/ 47		CH22_FGENES.27_3	2.01	
301699	AI879117	11-00444	EST cluster (not in UniGene) with exon h	2.01	
332554	W96450	Hs.23111	phenylalanine-tRNA synthetase-like	2.01	

327994			CH.06_hs gij5868218	2.01	
315613	AW137420	Hs.192311	ESTs	2.01	
335356			CH22_FGENES.541_3	2.01	
334028			CH22_FGENES.318_7	2.01	
335277			CH22_FGENES.523_3	2.01	
308657	AI749855	Hs.236497	EST; Weakly similar to GLANDULAR KALLIF	OR.	2.01
305913	AA876109		EST singleton (not in UniGene) with exon	2.01	
323681	AW247730	Hs.102548	glucocorticoid receptor DNA binding fact	2.01	
333533			CH22 FGENES.175_20	2.01	
328753			CH.07_hs gil5868298	2.01	
302397	L01694	Hs.211523	quanine nucleotide binding protein (G pr	2.01	
304643	AA526588		EST singleton (not in UniGene) with exon	2.01	
333065			CH22_FGENES.75_8	2.01	
316192	AA904441	Hs.221286	ESTs	2	
302533	L36149	Hs.248116	chemokine (C motif) XC receptor 1	2	
312988	AA813689	Hs.123436		2	
333612			CH22_FGENES.217_7	2	
333615			CH22 FGENES.217_10	2	
316085	AI027959	Hs.132300	ESTs	2	
337936			CH22_EM:AC005500.GENSCAN.85-7	2	
330972	H18467	Hs.118983	ESTs; Wealdy similar to diaphanous 1 [H.	2	

Table 20: B survivor vs Mets – Up in Mets

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

		Unigene	Title: Unigene gene title	
Pkey	Ex Accn	UniG_ID	Complete Title	Ratio BS/Met
316625	AA780307	Hs.122156	ESTs	0.28
316076	AW297895	Hs.116424	ESTs	0.3
	AA699756			0.38
317198	AI810384	Hs.128025	ESTs	0.38
	AA487678			0.39
313510	AI147291	Hs.154006	ESTs	0.39
	AI380045			0.39
	AW402677			0.4
	AI915771			0.4
	AW276866			0.41
313403	W86995	Hs.113157	ESTs	0.42
	H73183	Hs.129885		0.43
	AW444619			0.43
	AI823969		ESTs	0.44
	AA809844		EST cluster (not in UniGene)	0.44
319818	AA825819	Hs.136952	ESTs	0.44
337522			ESTs CH22_FGENES.819-1	0.45
324714	AA574312	Hs.245737	ESTs	0.45
	AA551104			0.46
300548	AI026836	Hs.114689	ESTs	0.47
304483	AA431441		EST singleton (not in UniGene) with exon	0.47
313096	Al422367	Hs.163533		0.47
306501	AA987294		EST singleton (not in UniGene) with exon	0.47
329086			CH.X hs qil5868604	0.47
320176	AA167566	Hs.133325	ESTs	0.47
320418	AI674461	Hs.199638	ESTs	0.47
	W92391		ESTs; Weakly similar to C2H2-type zinc f	0.48
315609	AW207535	Hs.224012	ESTs	0.48
317056	AA904908	Hs.250643	ESTs	0.48
314361	AL038765	Hs.161304	ESTs	0.49
315169	AI371390	Hs.158667	ESTs	0.49
323743	AA324992	Hs.257168	ESTs	0.49
313903	AW167439	Hs.190651	ESTs	0.49
315061	AA551196	Hs.188952	ESTs	0.49
300969	AI140799	Hs.76230	ribosomal protein S10	0.5
331950	AA454595	Hs.99369	ESTs	0.5
315076	AI623817	Hs.168457	ESTs .	0.5
300975	Al283548	Hs.149668	ESTs	0.5

TABLE 1-20A

Table 1-20A, shows the accession numbers for those pkeys lacking unigeneID's for Tables 1-20. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Pkey: CAT number: Accession:

Unique Eos probeset identifier number

Gene cluster number

Genbank accession numbers

Pkey CAT Number Accesssion

108446 112224_1 108474 116896_1 AA085383 AA126091 AA074174 AA075373 AA079120 AA070831 AA075978 AA075372 AA128503

AA115179 AA079667 AA115897 AA079771

100635 10605_34

BE259039 W29128 AW410299 X72990 BE246492 NM_005243 X66899 AI909006 AW248151 AL031186 AA012966 BE273549 BE311429 BE253102 Y07848 BE538102 BE256863 BE261240 BE312156 BE618412 BE257322 BE620446 AW806629 AA376777 AA325384 BE256808 BE251039 BE257878 BE275352 AA357169 AW403562 AA204995 AA093259 W95953 BE256279 BE336683 BE252465 BE251266 AA380754 BE294942 AA380941 AA380999 BE297164 BE249995 BE294719 BE295372 Al270673 BE305132 BE563752 BE295357 Al525421 BE263980 AA057505 AA020915 BE266318 BE206948 Al474020 BE296420 BE297374 BE408545 BE019366 BE407372 BE266180 BE279437 R58233 T19567 BE300738 AW381179 AA357571 AW361285 AA436908 AA301019 AA301022 N20202 BE408777 BE548638 BE167415 AA071260 BE088429 BE280092 W23117 T19568 R51681 AW402216 W22784 BE185607 AI457224 BE544120 AL134874 S72620 AA375079 D51319 AW818280 BE514686 AW853024 BE563744 AA300469 T07592 BE622190 BE272834 W21781 BE315450 BE542367 BE393120 AA988441 H55137 BE562296 BE622502 BE395960 AA329733 AA332348 AI768317 AA456866 AI497832 AW878437 AA857042 U18018 BE621418 AI818790 AI949507 BE397693 AI885545 AI858854 AI355147 BE169028 S62138 AW732191 AA856891 BE266060 X71427 BE268557 AF095890 AW001288 AI799634 AI623498 AA071346 BE547662 BE261446 AI564543 BE559759 U35622 BE314249 BE264915 Al638591 Al538385 AW090025 BE384754 Al888689 AW778800 Al925273 AA075797 AW949130 AV660275 AW438697 AI587137 AI524121 AA806249 AW628247 AA808241 AI244388 AI761125 AW117672 AA911782 Al129250 AA654447 H55291 BE258050 BE206162 W95867 AA857187 Al871378 Al660103 AW103827 Al220929 AW149949 BE465561 Al302857 AW168841 D82190 AW249814 Al623432 Al687358 AW951077 R51592 W60458 Al092863 AW474693 D12765 AI911646 D82208 D82187 AW074031 AI358527 AW338497 AA970893 AW072573 AA205364 AI858866 AA012830 AW148763 Al863056 AA548656 BE250325 Al016994 Al864005 BE046122 Al497746 C75340 R58896 D82141 AW168240 C19048 AI741090 D29465 AI222365 AA948288 AI583522 AW572212 AI091290 AA582727 AA579897 AA570629 W60883 AW516989 AL038160 AA577334 AI865872 AA994043 AA922583 AA464778 AA209178 AI829479 AI370235 BE246529 AA384177 AA456255 Al699730 W60654 AL035744 AA862042 R32756 Al886886 AA993087 Al289479 AA627840 AA464184 AI619503 R32755 AW075358 AI432315 AA457024 AA020865 R92132 AA454629 AA746059 AA454643 AA456240 AA826984 BE163738 Al806470 Al991074 Al802560 AA587095 AA558714 AA968521 N87780 Al538246 N71794 AV661738 Al368903 AA362570 Al989445 Al674962 S75762 BE245204 AA975296 D20123 AW005704 AA693328 AA582270 Al918474 AW205707 Al696299 AA220990 AA101538 T29030 H27201 AW262526 Al610530 AA126840 AA126790 X92120 AW367868 BE299644 BE299451 AA476561 BE300044 AA134363 BE295222 AA307504 N42337 AA319098 N39502 AW964461 N57241 BE299049 N86332 R51156 AA085859 T75212 AA133939 AA147129 AA156161 BE543953 BE538848 AA133676 BE299745 AA135050 AA218535 AW406401 AW411287 BE410528 C01410 NM 004083 BE314959 AA836413 AA085862 AW024370 AA471059 AW467508 AA001025 AI828231 AA633221 T95517 AA147038 AA476447 AW027012 AW078627 BE513200 Al192297 AA886279 AW081806 AA316185 AA010506 Al269929 W93139 AI682935 AA609555 AA378028 Al093877 AA999997 AA730698 Al143923 AW575315 AA890550 AA494353 AW576601 Al796336 AA826130 AA609207 Al539618 Al088539 Al089090 AA825505 AA632978 AA015892 AW204713 AA156495 AA824613 AA133630 N29826 AA527476 AI633352 T27908 AA134364 AA133940 AW043601 H37775 AA772375 AA057871 AA047888 AA054225 H86568 AA001511 H25718 AW189507 AA165589 AA054433 H85549 AA165486 AA058972 AA454911 AA464064 AA493802 AA428253 R85508 AW302469 AI611812 BE162582 F11073 T95518 N26811 AI783929 H40569 AW611745 Al658803 R51042 R45276 AA528386 AA782875 AW880218 AL138391 AA314536 AW949338 AA149466 AA149552 Al346513 AA216776 BE349131 AW007654 Al141803 AA622688 Al185131 AW057635 AA101539 AA627986 H27202 AI536847 W93084 AI973148 AI246788 AW572108 AI469414 AA454835 AA612707 AA430746 AI084991 AA010400 AA856636 AA463928 AI248310 R07170 AA834033 D12244 AI655670 AA054350 AA639480 AI702067 AI475389

100643 3931_1

NM_005032 M34427 AA332167 AW409711 AL119718 BE297581 BE299855 AA082284 AA226855 AA149568 AW391953 M22299 BE163594 AW847881 AW366993 BE142871 AW847885 AW604137 AW847753 AW847886 AW376442 U48350 AW607478 AA373011 AA334080 BE294177 AL121355 AA302236 BE540666 BE170588 AA346884 BE541512 AA226818 AA082001 AA366490 AW604122 AA205784 AW607791 BE168496 AA088497 T64373 BE165633 AW802804 AW847878 AA187408 AA088397 AI751745 AA344103 AA034463 AI906008 AA363580 AA379193 AI332642 AI43569 W52748 W52754 AA385532 AA085967 F05943 AA363422 AA133444 AA133477 AA029541 N48387 N83348 AA376056 AA147671 W70187 AA316255 BE174987 AA452776 AA089605 AL047776 BE162673 H39532 BE168406 AA357654 AA328728 AW813442 D57844 AW839748 AW839663 D57357 AA334536 AW268674 AW950788 AW409888 AI160544 D57821 AW664382 D25884 AI755101 AW130365 AI609094 AI984064 AI806523 AA492516 AI755258 BE157210 AA374884 AI983923 AI831088 AA706501 AI754957

100670 22023 1

100673 21517 2

108559 41469 9

108569 118606_1

100700 17137 1

100734 35197_1

100739 2738_3 117040 46956_1

100748 41861_1

100760 1334 7

100779 458 127

100787 458_127

130872 21268_1

108641 853_-13

100818 19604_3

130930 2773_1

124394 5590_5

100882 458_127

100885 12707_3 100896 205_6

100898 8542 1

AI688651 AI088623 AI336114 N38752 T56004 AA845200 AA858377 BE157397 AW069347 AA045366 AW316918 AW130372 Al355398 BE157396 Al751746 Al375820 AA129935 W60002 N24781 Al805924 W60009 AA044283 AA121161 Al539277 AA301885 AW019944 AA133445 AA101108 AA033559 W70060 AA617751 Al986261 Al023234 D82235 AA085846 AW754181 D82093 D82100 AA147653 AA600256 D57884 AI753982 AI568050 AI146490 AW302280 AI433051 AA329188 AW572150 AW166345 Al337981 AA778973 N67577 AA227207 AA838281 C06190 AL046997 Al217662 Al752979 AW627538 Al127171 AW160343 AI337961 AA778973 N07377 AA227207 AA658261 C06193 AIA40397 AIA17052 AI7302 AI R65797 F02189 AA483448 Al954410 AA865375 BE152836 BE152838 BE152839 T17300 BE152844 BE152833 BE152834 AA029542 Al567601 Al362353 BE162140 Al381384 BE152851 D57038 D57043 Al418363 AA133478 BE149051 BE149083 BE152850 BE149052 BE149084 AA886686 BE149064 BE149032 AA044093 AA129934 AA303976 BE157211 AA187291 BE152830 AA046552 BE149047 BE149079 BE149033 BE149065 BE149044 BE149076 BE149053 BE149085 BE149034 BE149066 BE149048 BE149080 BE149038 BE149070 BE149045 BE149077 AA332178 BE259177 BE545625 T09105 S62076 M16424 NM_000520 BE244309 F13516 BE251567 BE514981 AL119537 AA336739 BE261801 AA278642 N32708 T77034 W24621 W42478 AW630382 AW856214 AA134234 M13520 BE379212 AA287459 BE019379 BE297192 BE162970 AW405668 AW403322 BE272280 BE208703 BE304428 BE162807 BE162828 BE162887 BE078944 BE163025 BE162878 BE162909 BE162898 BE162791 BE162880 BE073563 BE163086 BE162896 BE162770 BE073565 BE162906 BE162913 BE162947 BE162803 BE262199 BE162811 BE080697 BE315095 AW206024 AI291054 BE087364 AL046839 AA304422 AA847660 AA669876 BE392765 AI567798 AW026644 AW151258 AA996314 AI828660 AI571158 T61941 AW103503 AW172698 AI923115 AI823709 T62167 AW771381 AW151782 AI799284 AW242271 AA128031 BE261306 BE312241 AI674880 BE261057 AA630684 AA831305 AI139546 AW082447 AA916854 AA916855 T05970 AA599395 AA921680 AI244674 AI041920 AA424998 AI362999 W42543 T51260 AI362486 AI699366 AI827925 AI027381 A1027370 A1209049 AA782220 A1334014 A1279051 A1217711 A1674210 A1193370 A1701683 T23782 A1927545 A1784291 AA128007 A1370630 A1972736 AA853763 N92379 A1916746 AA639633 AA907603 A1479452 AW950971 T28985 A1685825 AA563654 AA745291 AW089417 F10858 A1354227 R38108 A1668647 AA994088 A1740910 AW880973 A1739410 A1480346 N78987 Al473892 BE162903 BE254430 BE260426 AA650012 AW006426 AW403342 AW248986 BE561709 AA357312 BE311834 BE389496 BE294887 AW732696 BE047868 AI702383 BE019155 AI702367 BE408966 BE280458 BE313759 BE513492 BE535404 BE280258 AC005263 NM_007165 L21990 AW732711 AI564920 AW249094 BE265365 AW607186 AW607346 BE005217 H27211 U46230 BE260066 BE207043 BE546782 AW248659 AA085228 AA085161 AA082885 AA114265 AA085398 AA113184 AA932794 BE540417 AW409802 AW410765 BE296651 BE294197 BE164813 AW381886 AW381806 AL048654 AW403058 BE207228 AA464654 AW966967 AA326831 BE407277 BE408669 AA476527 AA115576 AA359697 AA476357 AA449939 BE263719 AL045304 W21442 R28919 BE395990 AA252273 AI346812 BE538487 AA507160 W93950 N42025 AI3468439 AL134931 AA031524 AI887287 AW470017 AA476423 AA464553 AW410766 AI569421 AA577476 AI248935 AI912371 AW615674 AA824237 AA807746 AA827377 AA890268 AA476309 Al086424 AW409698 AA031553 AW451901 Al520934 AW050554 R49825 N30302 AA532541 W94004 N93402 AA115549 AA331202 L25665 NM_005275 AA436745 Al122671 R49779 R18508 A1807481 A1500404 A1092260 BE348962 A1143675 AA772399 AA772398 A1368565 A1379172 A1083781 A1871363 AA843793 NM_000141 M87770 X52832 M55614 Z71929 W05259 AA548551 AI498743 BE081295 BE162251 F05643 AI127918 H83199 W07463 BE551725 R28404 AW206461 AW590506 AI885536 N69800 R93496 R25381 AA443093 AI143063 AI284647 AI703144 AA309032 AA309031 AW949426 AW949428 AI638387 AI638356 R77173 R38513 T89263 F01900 H87979 R70205 AA664355 AA235910 AA033657 AI386212 NI50463 AIA33805 AI081876 AI421090 AW020818 AI559529 AI887420 BE154202 AA889062 AA723410 BE537575 AA236812 AI218552 AI264866 AI290617 AA424365 AA424505 AW073347 AA032183 AI142488 N55322 AI884363 AI336070 N67307 AA608928 T94993 AW514184 AA724695 N66630 AI379638 AI274671 AW628470 AA235346 AA687581 AI073906 AI263602 AI869111 AI805693 AI423808 AI076491 AI374640 H82967 AA776567 AA256191 T29856 AA953586 AI140801 AI805484 AA984329 R93497 AID17114 AI263355 N81103 AW418776 D57474 AI918460 AA256152 AI683268 AI042628 AW196650 C00195 AI918567 T28903 N95383 R13671 T94939 AI275235 AA235751 T84335 M59287 L29222 Al251890 BE244986 Al708332 AW970600 AA503323 H89218 AF086031 H89112 X06096 X05826 AW794626 M27126 M27014 BE561958 BE561728 BE397612 BE514391 BE269037 BE514207 BE562381 BE514256 BE514403 BE514250 BE397832 BE269598 BE559865 BE398881 BE560031 BE514199 BE560037 BE560454 BE561958 BE561728 BE397612 BE514391 BE269037 BE514207 BE562381 BE514256 BE514403 BE514250 BE397832 BE269598 BE559865 BE396881 BE560031 BE514199 BE560037 BE560454 U61084 NM 004900 U61083 AI761325 AI826909 H79385 T81886 AI222763 N68038 AI281048 H79274 AA603662 AA721720 T71211 C00488 AA994672 AW136970 AW368715 AA380767 AL022318 AA112059 U79251 AA843851 R38201 R66461 R44908 AA683289 H17477 R37364 R52832 AW298336 AA351391 NM_002545 L34774 AA296886 AW967001 T28889 R13451 T77331 AL119196 AL118830 H08459 AW892812 AW905838 H17585 R52878 NM 005658 U19261 BE622108 AA313592 AW950162 H25107 R71725 R50630 Al524201 Al476301 AW014547 AW195770 Al378122 Al554908 Al927196 Al913959 AW044513 R50534 Al379950 Al311593 BE043305 R82981 AA769375 R77429 AW196220 Al269033 AA883433 R71691 F11489 AW771234 AA402642 AA399408 AW771244 Al400707 R55446 AI950447 AW027427 AI640151 AI139433 AI400708 AW779975 AI739122 AI384000 AW079410 AI473425 AA150109 AI766579 Al351784 Al209046 Al474732 N29724 Al382653

M91803 X65362
BE387614 R51501 AA199714 AW674779 F08178 BE269071 AA376313 H08264 AA380420 H18785 AL042151 BE277758
BE267438 NM_005850 L35013 BE540833 BE390902 BE391494 BE277459 BE385592 BE390612 BE384263 BE387779
BE388647 BE537373 BE547158 AW409585 AW374033 AW602185 AA355725 AW577548 AW935015 AW935160 W40232
AW938647 AW374332 AA434040 BE283488 AL138361 BE560260 AI745075 AA317980 AW949382 AI834311 AI653582
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TABLE 1-20B

Table 1-20B, shows the genomic positioning for those pkeys lacking unigene ID's and accession numbers in Tables 1-20. For each predicted exon, we have listed the genomic sequence source used for prediction. Nucleotide locations of each predicted exon are also listed.

Pkey:

Unique number corresponding to an Eos probeset

Ref:

Sequence source. The 7 digit numbers in this column are Genbank Identifier (GI) numbers. "Dunham I. et al." refers to the publication

entitled "The DNA

sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495.

Strand: Nt_position: Indicates DNA strand from which exons were predicted. Indicates nucleotide positions of predicted exons.

Pkey 332792 Ref Strand Nt_position 73381-73768 Dunham, I. et.al. Plus 332843 Dunham, I. et al. Plus 1142859-1143494 332909 Dunham, I. et al. Plus 1946582-1946735 332920 Dunham, I. et.al. Plus 2007562-2007785 2431726-2432006 332947 Dunham, I. et.al. Plus 332949 Dunham, I. et.al. Plus 2436245-2436348 332958 Dunham, I. et.al. Plus 2516164-2516310 332992 Dunham, I. et.al. Plus 2699997-2701093 332993 2701550-2701685 Dunham, I. et.al. Plus 333004 Dunham, I. et al. Plus 2759056-2759165 333006 Dunham, I. et.al. Plus 2762853-2762953 333007 Dunham, I. et.al. Plus 2763569-2763709 333132 Dunham, I. et al. Plus 3358040-3358153 333133 3360058-3360195 Dunham, I. et.al. Plus 333139 Dunham, I. et al. Plus 3369495-3369571 333152 Dunham, I. et al. Plus 3612171-3612354 333205 Dunham, I. et.al. Plus 3942727-3943009 333221 Dunham, I. et.al. Plus 3978070-3978187 333225 Dunham, I. et.al. Plus 3992229-3992386 333245 4157587-4157668 Dunham, I. et.al. Plus 333248 Dunham, I. et al. Plus 4162041-4162139 333261 Dunham, i. et.al. Plus 4336597-4337752 333272 Dunham, I. et.al. Plus 4381561-4382212 333281 Dunham, I. et.al. Plus 4506230-4506342 333283 4514226-4514360 Dunham, I. et al. Plus 333288 Dunham, I. et.al. Plus 4516841-4516939 333298 4581537-4581947 Dunham, I. et.al. Plus 333306 Dunham, I. et al. Plus 5396233-5396310 Dunham, I. et al. Plus 333382 4905796-4905913 333403 4925140-4925256 Dunham, I. et al. Plus 333420 Dunham, I. et.al. Plus 4954302-4954465 333428 Dunham, I. et al. Plus 4973869-4974007 333464 Dunham, I. et al. Plus 5210762-5211300 Dunham, I. et al. Plus 333465 5211385-5211858 333488 Dunham, I. et.al. Plus 5396233-5396310 333515 Dunham, I. et.al. Plus 5564299-5564851 333520 Dunham, I. et al. Plus 5586133-5586296 333566 Dunham, I. et.al. Plus 5954226-5954473 333567 Dunham, I. et al. Plus 5959139-5959515 333571 Dunham, I. et al. Plus 6007916-6008058 333572 Dunham, I. et al. Plus 6026896-6027189 333576 Dunham, I. et al. Plus 6090345-6090721 333577 Dunham, I. et al. Plus 6123950-6124281 333580 Dunham, I. et al. Plus 6142935-6143145 Dunham, I. et al. Plus 333587 6250599-6250966 333588 Dunham, I. et al. Plus 6255445-6255779 333591 Dunham, I. et al. Plus 6285884-6286251 333592 Dunham, I. et al. Plus 6297731-6297976 333593 Dunham, I. et al. Plus 6304132-6304428 333594 Dunham, I. et al. Plus 6308990-6309450 333599 Dunham, I. et al. Plus 6337885-6338255 333600 Dunham, I. et al. Plus 6355629-6355925 333601 Dunham, I. et al. Plus 6360075-6360442 Dunham, I. et.al. Plus 333607 6504431-6504690 333608 Dunham, I. et.al. Plus 6510834-6511130

333619	Dunham, I. et.al.	Plus	6562799-6562926
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333625	Dunham, I. et al.	Plus	6603020-6603310
333626	Dunham, I. et al.	Plus	6614174-6614457
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333635	Dunham, I. et.al.	Plus	6663683-6663973
333637	Dunham, I. et al.	Plus	6674968-6675134
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333643 333646	Dunham, I. et.al. Dunham, I. et.al.	Plus Plus	6728053-6728343 6739110-6739379
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333654	Dunham, I. et.al.	Plus	6816731-6816993
333656 333657	Dunham, I. et.al.	Plus	6822087-6822406
333658	Dunham, I. et.al. Dunham, I. et.al.	Plus Plus	6831369-6831445 6835282-6835474
333668	Dunham, I. et.al.	Plus	7011009-7011223
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333680	Dunham, I. et al.	Plus	7071730-7071794
333682	Dunham, I. et al.	Plus	7076641-7076760
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333710	Dunham, I. et al.	Plus	7230314-7230476
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336958	Dunham, I. et al.	Plus	13203550-13203973
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336985	Dunham, I. et al.	Plus	14785058-14785225
		Pius Pius	14785058-14785225 16949229-16949306
336985	Dunham, I. et.al. Dunham, I. et.al.		
336985 337032	Dunham, I. et.al. Dunham, I. et.al. Dunham, I. et.al.	Plus Plus	16949229-16949306
336985 337032 337121 337132	Dunham, I. etal. Dunham, I. etal. Dunham, I. etal. Dunham, I. etal.	Plus Plus Plus	16949229-16949306 22050289-22050370 22255234-22255437
336985 337032 337121 337132 337168	Dunham, I. et al. Dunham, I. et al. Dunham, I. et al. Dunham, I. et al. Dunham, I. et al.	Plus Plus Plus Plus	16949229-16949306 22050289-22050370 22255234-22255437 23503596-23504240
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337964	Dunham, I. et.al.	Plus	7032720-7032802
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338239	Dunham, I. et.al.	Pius	14669918-14670016
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338326	Dunham, I. et.al.	Plus	17358806-17358964
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338703	Dunham, I. et.al.	Plus	25219881-25220046
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333258	Dunham, I. et.al.	Minus	4301348-4301269
333271	Dunham, I. et.al.	Minus	4377786-4377589
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333313	Ounham, I. et al.	Minus	4639397-4639277
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333581	Dunham, I. et al.	Minus Minus	6151638-6151159 6158522-6158322
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333665	Dunham, I. etal.	Minus	6975471-6975215
333713	Dunham, I. et al.	Minus	7289490-7289337
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327259	5867447 5867454	Pius Pius	87268-87438
327264	5867461	Plus	47014-47367
	101,401	1 1447	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

327273	5867466	Plus	73451-73549
327274	5867470	Minus	84027-84128
327277	5867473	Minus	165616-165715
327278	5867473	Minus	166350-166439
327289	5867481	Plus	49296-49536
327304	5867494	Plus	20664-20850
327315	5867508	Minus	78409-79245
327246	5867547	Plus	136212-136325
327155	5867549	Plus	90343-90876
327159	5867550	Minus	8219-8331
327334	5902477	Minus	142655-142745
327341	6017016	Minus	122906-123014
327185	6117805	Minus	3287-3451 10219-10457
327309 327263	6456757 6525274	Minus Minus	153814-154920
327362	6552412	Minus	62459-62805
327413	5867750	Plus	101410-101508
327418	5867750	Minus	153453-153547
327430	5867754	Plus	1320-1403
327431	5867754	Plus	1853-1958
327472	5867775	Plus	74628-74937
327487	5867785	Minus	146220-146326
327379	5867795	Plus	1368-1820
327461	6004455	Plus	209031-209210
327532	6469818	Plus	71994-72137
330170	6648220	Pius	103280-103849
330166	6648220	Plus	86542-86867
327544	5867797	Minus	18105-18332
327564	5867811	Plus	13850-14018
327566	5867811	Plus	33383-33901
327581	5867825	Plus	5318-5434
327585	5867825	Plus	85660-85764 199214-199579
327605 327710	6004463 5867860	Plus Minus	131012-131790
327610 327610	5867868	Minus	174109-174278
327624	5867871	Minus	37699-37788
327641	5867890	Plus	13583-13702
327646	5867894	Minus	3043-3258
327614	6525283	Plus	3634-4001
327736	5867940	Minus	37781-37887
327739	5867942	Minus	182187-182548
327740	5867943	Plus	25716-26077
327743	5867944	Minus	155930-156098
327755	5867955	Minus	61969-62145
327772	5867964	Minus Minus	26185-26285 127659-127899
327774 327823	5867964 5867968	Minus	170359-170433
327827	5867968	Minus	201918-202048
327833	5867968	Minus	303618-303732
327805	5867968	Plus	19952-20019
327809	5867968	Plus	54610-54761
327816	5867968	Minus	79202-79552
327790	5867977	Plus	19822-19985
327791	5867977	Plus	22491-22610
327793	5867979	Plus	18874-19254
327845	6531962	Plus	193402-193549
327846	6531962	Plus	195216-195373
330204	6013606	Plus	86663-86811
330189	6165182	Minus	26732-26991
330239	6671857	Plus	117484-118092
330266 330275	6671885	Minus	129505-129832 103585-103716
330280	6671904 6671910	Plus Plus	2109-2377
330286	6671913	Minus	31050-31171
327999	5867994	Plus	94710-94841
328109	5868020	Minus	353895-354525
328098	5868020	Minus	261745-261920
328134	5868039	Plus	72354-72487
328171	5868071	Plus	101102-101224
328221	5868099	Minus	37489-37829
328224	5868101	Plus	105563-105832
328228	5868105	Minus	21488-21596
328236	5868117	Plus	13864-14371
327864	5868130	Plus	59139-59358
327888	5868149	Minus	51964-52120
327899	5868156	Minus	102288-102697

327925	5868172	Minus	118396-118490
327927	5868173	Plus	50989-51246
327937	5868192	Minus	33127-33485
327946	5868206	Plus	44102-44319
327982	5868216	Plus	30307-30527
327990	5868218	Minus	36225-36503 477679-478113
328015 328016	5902482 5902482	Minus Minus	507572-508519
328025	5902462 5902482	Minus	931937-932171
328031	5902482	Phis	1176372-1177283
328053	5902482	Minus	2709850-2710010
328243	6056292	Plus	1-243
328271	6552415	Plus	39015-39098
328592	5868227	Minus	252407-252565
328570	5868231	Plus	89210-89816
328607	5868233	Minus	246798-246944
328620	5868241	Minus	15651-15788
328624	5868246	Minus	120666-120836
328791	5868309	Plus	171592-171929
328810	5868327	Plus	101730-101914
328820	5868330	Plus	90446-90602
328835	5868339	Plus	88053-88461
328282 328314	5868353	Plus	72692-72819
328314 328328	5868371	Minus Plus	288397-288505 169210-169407
328328 328420	5868375 5868411	Pius Pius	53612-53886
328428	5868417	Pius Pius	13599-13780
328436	5868417	Plus	203760-203904
328444	5868420	Pius	65393-66103
328462	5868433	Plus	49649-49768
328467	5868434	Minus	15954-16073
328474	5868446	Minus	128777-128970
328484	5868454	Minus	21974-22140
328504	5868471	Plus	47064-47217
328506	5868471	Ptus	60716-60830
328507	5868473	Minus	199637-199990
328544	5868486	Ptus	145659-145829
328552	5868489	Plus	47328-47607
328557 328558	5868489	Plus	138094-138161 143648-144108
328276	5868489 6004471	Plus Plus	13282-13450
328277	6004471	Minus	279901-280181
328662	6004473	Phis	1184773-1184855
328636	6004473	Plus	192484-192543
328803	6004475	Minus	291716-291948
328305	6004478	Minus	34730-34851
328569	6004480	Plus	232896-233243
328581	6006033	Minus	121249-121400
328582	6006033	Minus	134177-134282
328768	6017031	Minus	223741-224238
328770 328841	6017031	Minus	363933-364166 5214-5479
328851	6381920	Minus	2502-2606
328859	6381923 6381928	Pius Pius	2302-2606 69045-69138
328860	6381928	Pius	83265-83366
328863	6381929	Minus	29313-29506
328868	6381930	Plus	112825-112993
328876	6525286	Plus	94053-94185
328886	6588003	Plus	31068-31429
328888	6588003	Minus	111901-111999
328936	5868500	Minus	1352202-1352259
328938	5868500	Plus	1522923-1522986
328971	6478806	Minus	23976-24105
330338	5457162	Plus	48406-48518
330327 330319	5919194	Plus Plus	121561-121683 49095-50132
328974	5932415 5868520	Plus Plus	49095-50132 31557-31668
328981	5868527	Minus	105677-105764
328989	5868535	Plus	182088-182198
330363	3126882	Minus	61838-61901
330370	6580495	Plus	10826-11669
329041	5868564	Plus	141592-141785
329078	5868597	Plus	326798-326860
329097	5868624	Plus	12002-12170
329107	5868626	Plus	101063-101190
329114	5868650	Minus	23792-23910

329116	5868650	Minus	43389-43493
329164	5868691	Phus	62305-62517
329187	5868713	Plus	29909-30175
329201	5868718	Plus	79266-79539
329221	5868727	Minus	105837-105894
329246	5868732	Minus	250541-250792
329254	5868733	Plus	4133-4214
329326	5868806	Plus	155884-155992
329330	5868806	Minus	340278-340403
329382	5868868	Plus	41401-41655
329384	5868869	Minus	116524-116662
329386	6004484	Plus	160502-161110
329140	6017060	Plus	290842-290905
329182	6056331	Minus	662206-663423
329018	6249620	Plus	103950-104034
329319	6381976	Plus	721390-721470
329392	6478815	Plus	109786-109854
329029	6525302	Plus	281445-282490
329401	6682544	Plus	21342-24014
329406	6682547	Plus	47249-47395
329411	6682549	Minus	84558-84835
329429	5868882	Minus	97008-97091
329436	5868883	Plus	230265-230528
329464	6456788	Minus	4437-4538

TABLE 21:

310 GENES UP-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO NORMAL COLON TISSUE

Table 21 shows 310 genes up-regulated in colon cancer derived liver metastases compared to normal colon tissue. These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" normal colon tissues was greater than or equal to 3.0. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" normal colon tissue level was set to the 50th percentile.

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

		Unigene R1:	D: Unigene number Title: Unigene gene title Genes up mets vs normal		
Pkey	ExAccn	UnigenelD	Unigene Title	R1	
446619	AU076643	Hs.313	secreted phosphoprotein 1 (osteopontin,	26.72	· ·
431958	X63629	Hs.2877	cadherin 3, type 1, P-cadherin (placenta	16.36	3
409041	AB033025	Hs.50081		13.94	
444381	BE387335	Hs.283713	ESTs, Weakly similar to S64054 hypotheti	13.90)
	AA533447			12.24	,
428330	L22524	Hs.2256	matrix metalloproteinase 7 (matrilysin,	11.60)
	T49951	Hs.9029	DKFZP434G032 protein	9.52	
	BE551618			9.20	
	Al801098		· · -	9.00	
			ESTs, Moderately similar to I38937 DNA/R	8.90	
	BE242691			8.74	
	AI565071			8.40	
			Homo sapiens mRNA; cDNA DKFZp564F112		8.39
	AA830893			8.22	
	T93500		Homo sapiens cDNA FLJ11041 fis, clone PL		
			ESTs, Weakly similar to ALUE_HUMAN !!!!	7.96	
	R71264			7.94	
	H57111	Hs.16798 Hs.221132		7.88	
				7.82	
	AA478883				
	C17908	Hs.194125		7.78	
			ribosomal protein S24	7.76	
			ESTs, Weakly similar to 178885 serine/th	7.76	
	BE218886			7.74	
		HS.289115	DKFZp434A0131 protein	7.58	
	N99638		gb:za39g11.r1 Soares fetal liver spleen	7.56	
	AV651680			7.54	•
			ESTs, Moderately similar to I38022 hypot	7.48	
	AW205632			7.26	
			Homo sapiens clone IMAGE:713177, mRNA		7.19
			hemoglobin, gamma G	7.12	
	AW016607	Hs.201582	ESTs	7.08	
156332	AA228357		gb:nc39d05.r1 NCI_CGAP_Pr2 Homo sapien	\$	7.04
121814	L12350	Hs.108623	thrombospondin 2	6.89	
140774	AI420611	Hs.127832	ESTs	6.86	
128065	A1634046	Hs.157313	ESTs	6.78	
422330	D30783	Hs.115263	eptregulin	6.72	
413950	AA249096	Hs.32793	ESTS	6.67	
138011	BE466173	Hs.145696	splicing factor (CC1.3)	6.62	
121057	T58283	Hs.10450	Homo saplens cDNA: FLJ22063 fls, clone H	6.58	
		Hs.334838	KIAA1866 protein	6.40	
108806	AW847814	Hs.289005	Homo sapiens cDNA: FLJ21532 fls, done C	6.38	
125787	AA363867	Hs.155029	ESTs	6.38	
	AA700439			6.32	
	AL049390				6.28
	W19971	Hs.233459		6.22	
	AI539227		hypothetical protein FLJ23556	6.17	•
				V. 11	
	Y00787	Hs.624	interleukin 8	6.12	

	AI689496	Hs.108932		6.04	
	AB033091		KIAA1265 protein	6.00	
	AW054922 AL117452			5.94	
	AA319798		DKFZP586G1517 protein eukaryotic translation elongation factor	5.90	
	AW452948		ESTe	5.88	
423349	AF010258	Hs.127428	homeo box A9	5.84	
436100	AA704806	Hs.143842	ESTs, Weakly similar to 2004399A chromos	5.84	
453204	R10799	Hs.191990	ESTs	5.84	
429183	AB014604	Hs.197955	KIAA0704 protein	5.78	
	AA640987	Hs.193767	ESTs	5.72	
	Al357412	Hs.157601		5.70	
	A1948688	Hs.266619		5.66	
			sterile-alpha motif and leucine zipper c	5.64	
	AW294522 AA215404			5.64 5.60	
			Homo saplens cDNA FLJ12142 fis, clone MA		
	AI760942			5.58	
			Homo sapiens mRNA; cDNA DKFZp564F133		5.58
	AA809875		ESTs	5.56	
	AL042005		tripeptidyl peptidase II	5.48	
			ESTs, Wealty similar to ALU1_HUMAN ALU		5.46
	AA811244			5.44	
	AF102546		dachshund (Drosophila) homolog	5.42 5.42	
	AA312330 Al239923		transcription factor 7 (T-cell specific, ESTs	5.40	
	AF085833			5.38	
	AL043683		hypothetical protein FLJ10803	5.36	
	AW176909			5.34	
	A1924228		ESTs, Moderately similar to PC4259 ferri	5.33	
407966	AA295052	Hs.38516	Homo sapiens, clone MGC:15887, mRNA, con	m	5.30
447342	Al199268		Homo sapiens, Similar to RIKEN cDNA 2010	5.26	
	H13139	Hs.92282		5.26	
	AI280112		Homo sapiens cDNA FLJ13266 fis, clone OV		
	A1792868	Hs.135365		5.22 5.21	
	W22152	Hs.282929	ESTs, Moderately similar to PC4259 ferri	5.21	
411274	NM 002776	Hs 69423	kallikrein 10	5.17	
		Hs.69423 Hs.110630	kallikrein 10 Human BRCA2 region, mRNA sequence CG0	5.17 06	5.17
421999	NM_002776 U50535 AL044675	Hs.110630	Kallikrein 10 Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein		5.17
421999 426981	U50535	Hs.110630 Hs.173081	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein	06	5.17
421999 426981 431319 434966	U50535 AL044675 AA873350 AA657494	Hs.110630 Hs.173081 Hs.302232	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens	06 5.14 5.10 5.10	5.17
421999 426981 431319 434966 418830	U50535 AL044675 AA873350 AA657494 BE513731	Hs.110630 Hs.173081 Hs.302232 Hs.88959	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816	5.14 5.10 5.10 5.10 5.08	5.17
421999 426981 431319 434966 418830 428290	U50535 AL044675 AA873350 AA657494 BE513731 AI932995	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence	5.14 5.10 5.10 5.10 5.08 5.07	5.17
421999 426981 431319 434966 418830 428290 408784	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs	5.14 5.10 5.10 5.08 5.07 5.04	5.17
421999 426981 431319 434966 418830 428290 408784 411975	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02	5.17
421999 426981 431319 434966 418830 428290 408784 411975 409760	U50535 AL044675 AA873350 AA657494 BE513731 Al932995 AW971350 Al916058 AA302840	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97	5.17
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NC!_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96	5.17 4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035	U50535 AL044675 AA873350 AA657494 BE513731 Al932995 AW971350 Al916058 AA302840 AA284447	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs ESTS Bb:EST10534 Adipose tissue, white I Homo EST8 Homo saptens clone iMAGE:451939, mRNA sequence EST8	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96	
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442	U50535 AL044675 AA873350 AA657494 BE513731 Al932995 AW971350 Al916058 AA302840 AA284447 AA192455	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo sapiens clone IMAGE:451939, mRNA security ESTs ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.94	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962	U50535 AL044675 AA873350 AA657494 BE513731 AL93295 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.159473	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone iMAGE:451939, mRNA SESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saplens clone sapl	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 84 4.94 4.92 ens	
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277	U50535 AL044675 AA873350 AA657494 BA657494 B1932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AA982794 BE046594 AK001123	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.159473 Hs.26176	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone iMAGE:451939, mRNA sets ESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saple hypothetical protein FLJ10261	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 ens 4.92	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277 438406	U50535 AL044675 AA857350 AA657494 BE513731 Al932995 AW971350 Al916058 AA302840 AA284447 AA192455 AA737415 Al982794 BE046594 AK001123 BE273296	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.1528467	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs ESTs Homo saptens clone iMAGE:451939, mRNA s ESTs ESTs ESTs ESTs ESTs ESTs ESTs EST	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 84 4.94 4.92 ens 4.92 4.90	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277 438406 424950	U50535 AL044675 AA857350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.156974	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA sets ESTs gb:html://dx.diposetissue/britissu	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.92 ens 4.92 4.92 4.92 4.93 4.94	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277 438406 424950 436823	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE046594 AK001123 AA602917 AW749865	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.159473 Hs.25176 Hs.254467 Hs.256467 Hs.256467	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo sapiens clone IMAGE:451939, mRNA sequence ESTs gb:htm1c11.x1 NCI_CGAP_RDF2 Homo sapiens cDNA FLJ10261 Homo sapiens cDNA FLJ10255 fis, clone OV ESTs ESTs, Weakty similar to 138022 hypothetic	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 se 4.94 4.92 4.92 4.90 4.88 4.87	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420771 417035 434442 441328 438962 451277 438466 424950 424950 426823 444783	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.159473 Hs.254467 Hs.156974 Hs.254467 Hs.156974 Hs.293645 Hs.62180	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA sets ESTs gb:html://dx.diposetissue/britissu	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.92 ens 4.92 4.92 4.92 4.93 4.94	4.95
421999 426981 431319 434966 418830 408784 411975 409760 420717 417035 434442 438962 451277 438406 424950 436823 444783 444783	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE046594 AK001123 AA602917 AW749865	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.1528467 Hs.156974 Hs.254467 Hs.2534645 Hs.293645 Hs.62180 Hs.10760	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone iMAGE:451939, mRNA sESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saplens clone iMAGE:451939, mRNA sESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saplens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetic antilin (Drosophila Scraps homolog), act asporin (LRR class 1)	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 8e 4.94 4.92 4.92 4.90 4.88 4.87 4.82	4.95
421999 426981 431319 434966 418830 408784 411975 409760 420717 417035 434442 438962 451277 438406 424950 436823 444783 444783 4445390	U50535 AL044675 AA873350 AA657494 BE32995 AW971350 AI916058 AA302840 AA284447 AA192455 AI932794 BE046594 AK001123 BE273296 AA602917 AK001468 AK000136 AK000136 AK000136	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.1529473 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.254467	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone iMAGE:451939, mRNA sets ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetic antilin (Drosophila Scraps homolog), act asportn (LRR class 1) ESTs hypothetical protein MGC5306	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 84 4.92 ens 4.92 4.80 4.80 4.80 4.80 4.80 4.80	4.95
421999 426981 431319 434966 418830 428290 408784 411975 402717 417035 434442 441328 438962 451277 438406 436823 444783 444301 445390 439608 450506	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK000136 AI222165 AW864696 NM_004466	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22168 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.253645 Hs.62180 Hs.10760 Hs.144923 Hs.301732	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens ctone iMAGE:451939, mRNA sequence ESTs gb:hat1c11.x1 NCI_CGAP_RDF2 Homo saplens clone iMAGE:451939, mRNA sets gb:hat1c11.x1 NCI_CGAP_RDF2 Homo saplens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein FLJ10261 antilln (Drosophila Scraps homolog), act asportn (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 89 4.94 4.92 ens 4.92 4.80 4.80 4.80 4.80 4.80 4.78 4.78	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420771 417035 434442 441328 438962 451277 438406 436823 444783 444301 445390 439608 439608	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA3028440 AA288447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AK001468 AK000136 AL222165 AW864696 NM_004460 AI376400	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.556974 Hs.293645 Hs.62180 Hs.10760 Hs.10760 Hs.144923 Hs.301732	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo sapiens clone iMAGE:451939, mRNA sequence ESTs gb:hs110534 Adipose tissue, white I Homo ESTs Homo sapiens clone iMAGE:451939, mRNA sequence ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo sapi hypothetical protein FLJ10261 Homo sapiens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypotheti antilin (Drosophila Scraps homolog), act asportn (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 4.90 4.88 4.87 4.80 4.80 4.87 4.87 4.87 4.87	4.95
421999 426981 431319 434966 418830 428290 408784 411975 409760 420771 417035 434442 441328 438962 451277 438406 436823 444783 444301 445390 439608 439608 432682 426086	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA3028440 AA288447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AK001468 AK000136 AL222165 AW864696 NM_004460 AI376400 T94907	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.25268 Hs.159473 Hs.26176 Hs.254467 Hs.16974 Hs.16974 Hs.293645 Hs.62180 Hs.10760 Hs.	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo sapiens clone IMAGE:451939, mRNA sequence ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo sapiens clone IMAGE:451939, mRNA sequence ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo sapiens clone FLJ10261 Homo sapiens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein GLRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.96 89 4.92 4.90 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.8	4.95
421999 426981 431319 434966 418830 408784 411975 409760 420717 417035 434442 441328 438962 451277 438466 424950 424950 436823 444783 444301 445390 450506 450506 426086 436981	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK000136 AI222165 AW864696 NM_004460 AI376400 T94907 H74319	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.556974 Hs.293645 Hs.62180 Hs.10760 Hs.10760 Hs.144923 Hs.301732	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone IMAGE:451939, mRNA sESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saplens clone IMAGE:451939, mRNA sESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saple hypothetical protein FLJ10261 Homo sapiens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to I38022 hypothetical anillin (Drosophila Scraps homolog), act asporin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs	06 5.14 5.10 5.08 5.07 5.07 5.02 4.97 4.96 88 4.94 4.92 4.92 4.88 4.87 4.80 4.88 4.87 4.80 4.76 4.76 4.76	4.95 4.92
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277 438406 424950 436823 444783 444783 444783 445390 43682 426086 426086 426086 435981 432340	U50535 AL044675 AA857350 AA857494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001163 AI222165 AW864696 NM_004460 AI376400 T94907 T74319 AA534222	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.1559473 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.156974 Hs.27188 Hs.1760 Hs.17	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone iMAGE:451939, mRNA sequence ESTs gb:haf1c11.x1 NCI_CGAP_RDF2 Homo sapt hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs ESTs ESTs ESTs Hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.08 5.07 5.02 4.97 4.96 4.92 4.92 4.88 4.87 4.80 4.78 4.78 4.78 4.78	4.95
421999 426981 431319 434966 418830 428290 408784 411975 402717 417035 434442 441328 438962 451277 438406 424950 436823 444783 444301 445390 439608 43086 435981 435981 435981 435981 435981 435981 435981 435981 435981	U50535 AL044675 AA857350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001468 AK001136 AU222165 AW864696 NM_004460 AI376400 T94907 T74319 AA534222 AI418466	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.1559473 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.156974 Hs.27188 Hs.1760 Hs.17	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone iMAGE:451939, mRNA sequence ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens clone iMAGE:451939, mRNA sequence ESTs ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetia antilin (Drosophila Scraps homolog), act asportin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.08 5.07 5.07 5.02 4.97 4.96 88 4.94 4.92 4.92 4.88 4.87 4.80 4.88 4.87 4.80 4.76 4.76 4.76	4.95 4.92
421999 426981 431369 434966 418830 428290 408784 411975 420717 417035 434442 441328 438962 451277 438466 436823 444783 444530 445390 435682 426086 435981 432340 447982	U50535 AL044675 AA857350 AA857494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001163 AI222165 AW864696 NM_004460 AI376400 T94907 T74319 AA534222	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.221887 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.26180 Hs.10760 Hs.10760 Hs.144923 Hs.301732 Hs.418 Hs.159588 Hs.188572 Hs.188620	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone iMAGE:451939, mRNA sequence ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens clone iMAGE:451939, mRNA sequence ESTs ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetia antilin (Drosophila Scraps homolog), act asportin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.10 5.50 5.07 5.04 4.97 4.96 89 4.94 4.94 4.94 4.94 4.94 4.94 4.94 4	4.95 4.92
421999 426981 431319 434966 418830 408784 411975 409760 420771 417035 434442 441328 438962 451277 438405 424950 436823 444783 444301 445390 439606 43	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AK001468 AK000136 AI222165 AW864696 AI376400 T94907 H74319 AA534222 AI418466 H22953 AA001615 AA226495	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.25268 Hs.159473 Hs.26176 Hs.254467 Hs.16974 Hs.16974 Hs.293645 Hs.62180 Hs.10760 Hs.10760 Hs.144923 Hs.301732 Hs.448 Hs.18572 Hs.188620 Hs.3665 Hs.13665 Hs.3665 Hs.3665 Hs.3665 Hs.154292	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo sapiens clone IMAGE:451939, mRNA sequence ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo sapiens clone IMAGE:451939, mRNA sequence ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo sapien yopothetical protein FLJ10261 Homo sapiens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical mailin (Drosophila Scraps homolog), act asporin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.98 4.92 4.90 4.80 4.80 4.72 4.72 4.72 4.72	4.95 4.92
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 438962 451277 438406 424950 436823 444783 444301 445390 439608 430868 43	U50535 AL044675 AA857350 AR657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AI376400 T94907 H74319 AA534222 AI418466 H22953 AA001615 AA226495 AW963419	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.1559473 Hs.26176 Hs.254467 Hs.254467 Hs.156974 Hs.26180 Hs.10760 Hs.10760 Hs.10760 Hs.10760 Hs.188572 Hs.188520 Hs.188520 Hs.33665 Hs.137551 Hs.84561 Hs.154292 Hs.155223	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA sequence ESTs gb:haf1c11.x1 NCI_CGAP_RDF2 Homo saptens clone IMAGE:451939, mRNA sequence ESTs ESTs gb:haf1c11.x1 NCI_CGAP_RDF2 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to I38022 hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to I38022 hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.10 5.08 5.07 5.04 4.97 4.96 4.94 4.92 4.92 4.92 4.93 4.84 4.80 4.76 4.76 4.76 4.76 4.72 4.72 4.72 4.72	4.95 4.92
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277 438406 424950 436823 444783 444301 445390 435968 435986 43	U50535 AL044675 AA857350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001468 AK001136 AU222165 AW864696 NM_004460 AI376400 T94907 H74319 AA534222 AI418466 H22953 AA001615 AA26495 AW963419 AW969569	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.293645 Hs.1760 Hs.10760 Hs.10760 Hs.10760 Hs.10760 Hs.10760 Hs.10760 Hs.188572 Hs.188520 Hs.188572 Hs.188520 Hs.188520 Hs.33665 Hs.137551 Hs.44561 Hs.154292 Hs.155223 Hs.278270	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA sequence ESTs ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens clone IMAGE:451939, mRNA sequence ESTs ESTs gb:ha41c11.x1 NCI_CGAP_RDF2 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.08 5.07 5.02 4.97 4.92 4.92 4.92 4.94 4.92 4.94 4.92 4.94 4.94	4.95 4.92
421999 426981 431369 434966 418830 428290 408784 411975 434442 411975 434442 441328 438962 451277 438466 436823 444783 444301 445390 435756 43682 426086 435981 432482 447982 449509 407946 426215 414783 4147601	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE046594 AK001123 BA602917 AW749865 AK001468 AK000136 AI222165 AW864696 NM_004460 AI376400 T94907 H74319 AA534222 AA001615 AA226495 AW963419 AW069569 NM_014733	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.221887 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.26176 Hs.293645 Hs.62180 Hs.10760 Hs.10760 Hs.144923 Hs.301732 Hs.418 Hs.159588 Hs.188572 Hs.188620 Hs.137551 Hs.84561 Hs.154292 Hs.155223 Hs.278270 5Hs.82292	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone IMAGE:451939, mRNA sequence ESTs ESTs gb:hs110261 Homo saplens clone IMAGE:451939, mRNA sequence ESTs ESTs gb:hn41c11.x1 NCI_CGAP_RDF2 Homo saple hypothetical protein FLJ10261 Homo saplens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.08 5.07 5.02 4.97 4.98 94.94 4.92 4.92 4.88 4.87 4.80 4.74 4.72 4.72 4.72 4.72 4.72 4.72 4.73 4.74 4.74 4.74 4.72 4.72 4.72 4.73 4.74 4.74 4.74 4.74 4.74 4.74 4.74	4.95 4.92
421999 426981 4313169 434966 418830 428290 408784 411975 434442 441328 438462 451277 438462 445290 436823 444783 4445390 435456 436824 426986 435981 432682 449509 407946 426215 414783 4147801 438461	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AK001123 BA602917 AW749865 AK001468 AK000136 AI222165 AW864696 NM_004460 T94907 H74319 AA534222 AA001615 AA226495 AW963419 AW069569 NM_01473; AW075485	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.254467 Hs.293645 Hs.16760 Hs.10760 Hs.10760 Hs.10760 Hs.188620 Hs.188572 Hs.188620 Hs.185223 Hs.286049	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo sapiens clone IMAGE:451939, mRNA sequence ESTs gb:hth41c11.x1 NCI_CGAP_RDF2 Homo sapiens cDNA FLJ10261 Homo sapiens cDNA FLJ10255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein FLJ10261 antilin (Drosophila Scraps homolog), act asportn (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.10 5.07 5.02 4.97 4.96 84.94 4.92 4.92 4.90 4.88 4.87 4.88 4.87 4.72 4.72 4.72 4.72 4.72 4.72 4.73 4.74 4.74 4.74 4.74 4.74 4.74 4.74	4.95 4.92
421999 426981 431319 434966 418830 428290 408784 411975 434442 441328 438962 451277 438406 436823 444783 444301 445390 435981	U50535 AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AK001468 AK000136 AK001468 AK000136 AV22165 AW646696 NM_004460 T94907 H74319 AA534222 AI41866 H22953 AA001615 AA226495 AW963419 AW069569 NM_014734 AW075485 AA045573	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.2271887 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.2654467 Hs.2654467 Hs.165974 Hs.293645 Hs.10760 Hs.144923 Hs.301732 Hs.188572 Hs.188572 Hs.188572 Hs.188572 Hs.185223 Hs.278270 Hs.278270 Hs.278270 Hs.286049 Hs.22900	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone iMAGE:451939, mRNA sequence ESTs gb:hxh1c11.x1 NCI_CGAP_RDF2 Homo saple hypothetical protein FLJ10261 Homo saplens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs gb:nj21d02.s1 NCI_CGAP_AA1 Homo saplen ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.10 5.08 5.07 5.04 4.97 4.96 84.92 4.92 4.90 4.87 4.82 4.80 4.74 4.72 4.72 4.72 4.72 4.72 4.72 4.73 4.74 4.74 4.74 4.74 4.74 4.74 4.74	4.95 4.92
421999 426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 435981 435981 435981 435756 447982 449509 436823 447834 447834 445390 436823 447834 445390 436823 447834 445390 436823 447834 445390 436823 447834 445090 436823 447834 445090 436823 447834 445090 436823 447834 445090 436823 447834	U50535 AL044675 AA873350 AL044675 AA857494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001468 AK0001460 AI376400 T94907 T74319 AA534222 AI418466 H22953 AA001615 AW226495 AW963419 AW069569 NM_014733 AW075485 AW069569 NM_014733 AW075485 AW069569 NM_014733 AW075485 AW069569 NM_014733 AW075485	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.1559473 Hs.26176 Hs.254467 Hs.254467 Hs.156974 Hs.293645 Hs.17551 Hs.188572 Hs.188572 Hs.188572 Hs.188520 Hs.33665 Hs.137551 Hs.84561 Hs.84561 Hs.84561 Hs.155223 Hs.286049 Hs.293616	Human BRCA2 region, mRNA sequence CG0 KIAA0530 protein ESTs gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens hypothetical protein MGC4816 Homo saplens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo ESTs Homo saplens clone iMAGE:451939, mRNA sequence ESTs gb:hxh1c11.x1 NCI_CGAP_RDF2 Homo saple hypothetical protein FLJ10261 Homo saplens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs gb:nj21d02.s1 NCI_CGAP_AA1 Homo saplen ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	06 5.14 5.10 5.10 5.08 5.07 5.04 4.96 4.94 4.92 4.92 4.92 4.94 4.92 4.94 4.94	4.95 4.92

400040			1 morros (0.50) (1.50)	4.00
	AW979249	∐ e 192694	gb:EST391359 MAGE resequences, MAGP Homo eukaryotic translation initiation factor 4.66	
442007	AA301116	Hs.142838	nucleolar phosphoprotein Nopp34 4.6	
409632	W74001	Hs.55279	serine (or cysteine) proteinase inhibito 4.63	
432409	AA806538	Hs.130732	KIAA1575 protein 4.60	
452220	BE158006	Hs.212296	ESTs 4.6	
	AA292998			
	AW950905 AK000275		serine (or cystelne) proteinase inhibito 4.56 protein kinase C binding protein 1 4.56	
	AA610649			
431315	AW972227	Hs.163986	Homo sapiens cDNA: FLJ22765 fis, clone K 4.5	
434220	A1174777	Hs.283039	Homo sapiens PRO2492 mRNA, complete cds	4.50
			Homo sapiens cDNA FLJ14364 fis, clone HE 4.50	
	AW450536			
	AA160363			
	X00442	Hs.75990 He 122570	haptoglobin 4.47 hypothetical protein FLJ10461 4.44	
	AL118754	110.122010	gb:DKFZp761P1910_r1 761 (synonym: hamy2)	4.44
	A1076459	Hs.15978		
428279	AA425310	Hs.155766	ESTs, Weakly similar to A47582 B-cell gr 4.43	2
	AA744550			_
	AA489166			
	BE349534 T93096		ESTs 4.40 hypothetical protein MGC15912 4.40	
	T85314		thioredoxin-like 4.3	
	R45175	Hs.117183		
		Hs.81086	solute carrier family 22 (extraneuronal 4.36	3
408380	AF123050	Hs.44532	diubiquitin 4.36	
431379	AA504264	Hs.182937	peptidylprolyl isomerase A (cyclophilin 4.36	
			met proto-oncogene (hepatocyte growth fa 4.34	
	AA236282 AI766732		777	
	AW960454			-
	N34145		ESTs, Moderately similar to ZN91_HUMAN Z 4.3	
429512	AA453987		ESTs 4.30)
	H72531	Hs.36190	ESTs 4.30	
	AA564489			
	AA608955 AA010200			
	AI654133	Hs.30212		
	AA769266			
433230	AW136134			
	W94472		ESTs, Moderately similar to ALU1_HUMAN A 4.20	
	AI954880 AW961576	Hs.134604		
	AW451469			
	NM_001949		E2F transcription factor 3 4.10	
	Al376331	Hs.156103		
	A1034357		ESTs, Weakly similar to ALU8_HUMAN ALU S	4.16
			ESTs, Moderately similar to ALU8_HUMAN A 4.14	
	AI084336		ESTs, Weakly similar to I38022 hypotheti 4.14	
	U46258 AF086270	Hs.339665 Hs 278554	ESTs 4.14 heterochromatin-like protein 1 4.15	
	AI826999			
	AA761378			
			PRO0327 protein 4.10)
	AA502999			
425992 404571	AA367069	MS.100636	ESTs 4.0i	
	U77413	He 100203	O-linked N-acetylghicosamine (GlcNAc) tr 4.0	
			ESTs. Weakly similar to 178885 serine/th 4.0	
	R31178		fibronectin 1 4.00	
	A1056872	Hs.133386		
	AI624436	Hs.310286		
	AF204231	Hs.182982		
	H15474 AA810141	Hs.132898 Hs.192182	fatty acid desaturase 1 4.00 ESTs 4.00	
	BE177661	. 10. 102 102	gb:RC1-HT0598-020300-011-h02 HT0598 Homo	4.04
	Al133446	Hs.299964	Homo sapiens clone FLB7723 PRO2055 mRNA,	4.04
	AA470152			
			ESTs, Weakly similar to ALU1_HUMAN ALU S	4.02
	AI372949	Hs.44241	_ :	_
	AA054224 AF226053		ESTS 4.00 HSKM-B protein 4.00	
418876	AA740616		gb:ny97f11.s1 NCL_CGAP_GCB1 Homo saplens	4.00
		Hs.318584	novel C3HC4 type Zinc finger (ring finge 4.0)

	X78565		hexabrachion (tenascin C, cytotactin)	4.00	
431393	AW971493	Hs.134269	ESTs, Highly similar to cytokine recepto	4.00	
435008	AF150262	Hs.162898	ESTs	4.00	
	AW971375			3.97	
444816	Z48633	Hs.283742	H.sapiens mRNA for retrotransposon	3.96	
		Hs 321707	KIAA0742 protein	3.96	
413886	AWD5826A	He 103832	similar to yeast Up(3, variant B	3.95	
424005	NIM OCCACT	113.10000Z	All MA (nover in milesia cono o) mistad k	3.92	
			NIMA (never in mitosis gene a)-related k		
_			cell division cycle 2, G1 to S and G2 to	3.91	
		Hs.269880		3.86	
	AI809314	Hs.208501	ESTs, Weakly similar to B34087 hypotheti	3.86	
453818	BE256832	Hs.10711	hypothetical protein FLJ13449	3.85	
433586	T85301		gb:yd78d06.s1 Soares fetal liver spleen	3.85	
440638	AI376551		gb:te64e10.x1 Soares NFL_T_GBC_S1 Hom	n s	3.85
	AI253112	Hs.133540	V	3.84	4.00
				3.83	
	BE244200		KIAA0410 gene product		
423129			Homo saptens cONA FLJ11941 fis, clone HE		
	AA355925	Hs.36232	KIAA0186 gene product	3.83	
431193	AW749505	Hs.296770	KIAA1719 protein	3.81	
409262	AK000631	Hs.52256	hypothetical protein FLJ20624	3.80	
425568	AW963118	Hs.161784		3.78	
			Homo saplens cDNA FLJ12532 fls, clone NT		
	AA421020			3.77	
			Homo sapiens cDNA: FLJ22528 fis, clone H	3.76	
	AA678267			3.75	
	AW295687			3.74	
420439	AW270041	Hs.193053	eukaryotic translation initiation factor	3.72	
436090	AI640635	Hs.116468	EST	3.71	
416265	AA177088	Hs.190065	ESTs	3.70	
	AW969587		ESTs	3.67	
			ESTs, Wealdy similar to TSGA RAT TESTIS	3.67	
	AW080237			3.66	
			ESTs, Weakly similar to \$65657 alpha-1C-	3.65	
417211	T97617	Hs.269092	ESTs	3.60	
435538	AB011540	Hs.4930	low density lipoprotein receptor-related	3.59	
410390	AA876905	Hs.125286		3.58	
	AW979008			3.57	
	AA532718			3.57	
	AW022133			3.56	
T000 11					
420255					
	BE256452	Hs.2257	vitronectin (serum spreading factor, som	3.56	
432954	BE256452 AI076345	Hs.2257 Hs.214199	vitronectin (serum spreading factor, som ESTs	3.56 3.53	
432954 434466	BE256452 AI076345 AB037829	Hs.2257 Hs.214199 Hs.3862	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF	3.56 3.53 3.53	
432954 434466 421933	BE256452 AI076345 AB037829 R98881	Hs.2257 Hs.214199 Hs.3862 Hs.109655	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1	3.56 3.53 3.53 3.52	
432954 434466 421933	BE256452 AI076345 AB037829 R98881	Hs.2257 Hs.214199 Hs.3862 Hs.109655	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF	3.56 3.53 3.53	
432954 434466 421933 422082	BE256452 Al076345 AB037829 R98881 AA016188	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1	3.56 3.53 3.53 3.52 3.52	3.49
432954 434466 421933 422082 437135	BE256452 Al076345 AB037829 R98881 AA016188 AL038624	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALU8_HUMAN ALU	3.56 3.53 3.53 3.52 3.52	3.49
432954 434466 421933 422082 437135 424723	BE256452 Al076345 AB037829 R98881 AA016188 AL038624 BE409813	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALU8_HUMAN ALU : protein arginine N-methyltransferase 3(h	3.56 3.53 3.53 3.52 3.52 3.49	
432954 434466 421933 422082 437135 424723 434280	BE256452 AI076345 AB037829 R98881 AA016188 AL038624 BE409813 BE005398	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752 Hs.152337	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALU8_HUMAN ALU protein arginine N-methyltransferase 3(h gb:CM1-BN0116-150400-189-h02 BN0116 He	3.56 3.53 3.53 3.52 3.52 S 3.49 omo	3.49 3.49
432954 434466 421933 422082 437135 424723 434280 407289	BE256452 Al076345 AB037829 R98881 AA016188 AL038624 BE409813 BE005398 AA135159	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752 Hs.152337	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALU8_HUMAN ALU 1 protein arginine N-methyltransfer	3.56 3.53 3.53 3.52 3.52 3.49 omo 3.48	
432954 434466 421933 422082 437135 424723 434280 407289 417670	BE256452 Al076345 AB037829 R98881 AA016188 AL038624 BE409813 BE005398 AA135159 R07785	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752 Hs.152337 Hs.203349	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALUB_HUMAN ALU protein arginine N-methyltransferase 3(h gbt.CM1-BN0116-150400-189-h02 BN0116 H Homo sapiens cDNA FLJ12149 fis, clone MA gbtyf15c06.r1 Soares fetal liver spleen	3.56 3.53 3.52 3.52 3.52 S 3.49 omo 3.48 3.48	
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432954 434466 421933 422082 437135 424723 434280 407289 417670 431615 430068 432929 437763 445674 408113 408113 408108 432235 453985 415736 430220 426510 412104 411573 413816 428057 436280 436110 433862 440659 436110 433862 440659 439955 417333	BE256452 AI076345 AB037829 R98881 AA016188 AL038624 BE409813 BE005398 AA135159 R07785 AW295859 AW973253 AA464964 AW207166 AA469347 T82427 BE296227 AA531129 N44545 AA827082 BE378277 AW861225 AW205197 AB029000 AW958181 AI343641 AI	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752 Hs.152337 Hs.203349 Hs.292689 Hs.191265 Hs.5831 Hs.13063 Hs.194101 Hs.250822 Hs.190297 Hs.251865 Hs.291872 Hs.152230 Hs.189998 Hs.185798	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALU8_HUMAN ALU protein arginine N-methyltransferase 3(h gb:CM1-BN0116-150400-189-h02 BN0116 Hd Homo sapiens cDNA FLJ12149 fis, clone MA gb:yf15c06.r1 Soares fetal liver spleen ESTs ESTs gb:zx80f10.s1 Soares ovary tumor NbHOT H ESTs tissue inhibitor of metalloproteinase 1 transcription factor CA150 Homo sapiens cDNA: FLJ20869 fis, clone A sertine/ithreonine kinase 15 ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	3.56 3.53 3.52 3.52 S 3.49 0mo 3.48 3.45 3.45 3.44 3.42 3.41 3.41 3.41 3.41 3.37 3.37 3.37 3.37 3.33 3.32 3.33 3.32 3.32	
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432954 434466 421933 422082 437135 424723 434280 407289 417670 431615 429355 430068 432929 437763 445674 408108 432235 453985 415736 430220 426510 411573 413816 428057 436280 449365	BE256452 AI076345 AB037829 R98881 AA016188 AL038624 BE409813 BE005398 AA135159 R07785 AW295859 AW973253 AA464964 AW207166 AA469347 T82427 BE296227 AA531129 N44545 AA827082 BE378277 AW861225 AW205197 AB029000 AW958181 AI343641 AI	Hs.2257 Hs.214199 Hs.3862 Hs.109655 Hs.111244 Hs.208752 Hs.152337 Hs.203349 Hs.235860 Hs.292689 Hs.191265 Hs.5831 Hs.13063 Hs.194101 Hs.250822 Hs.190297 Hs.251865 Hs.291872 Hs.152230 Hs.194637 Hs.2640951 Hs.70823 Hs.18913 Hs.18913 Hs.18913 Hs.18913 Hs.185798 Hs.131740 Hs.151301 Hs.151301 Hs.151301 Hs.151301 Hs.149532 Hs.22179 Hs.125243	vitronectin (serum spreading factor, som ESTs regulator of nonsense transcripts 2; DKF sex comb on midleg (Drosophila)-like 1 hypothetical protein ESTs, Weakly similar to ALU8_HUMAN ALU : protein arginine N-methyltransferase 3(h gb:CM1-BN0116-150400-189-h02 BN0116 Hi Homo sapiens cDNA FLJ12149 fis, clone MA gb:yf15c06.r1 Soares fetal liver spleen ESTs ESTs gb:zx80f10.s1 Soares ovary tumor NbHOT H ESTs tissue inhibitor of metalloproteinase 1 transcription factor CA150 Homo sapiens cDNA: FLJ20869 fis, clone A serfine/threonine kinase 15 ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	3.56 3.53 3.52 3.52 S 3.49 0mo 3.48 3.45 3.45 3.44 3.42 3.41 3.41 3.41 3.41 3.37 3.37 3.37 3.37 3.33 3.32 3.33 3.32 3.32	

439349	AI660898	Hs.195602	FSTs	3.25	
	AI62747B	Hs.187670		3.24	
436217		Hs.107	fibrinogen-like 1	3.24	
429083	Y09397	Hs.227817	BCL2-related protein A1	3.24	
422244	Y08890	Hs.113503		3.22	
430178	AW449612	Hs.152475		3.21	
413810	AW197644	Hs.19107	ESTs	3.20	
428728	NM_01662	5Hs.191381	hypothetical protein	3.20	
	AA745618		BANP homolog, SMAR1 homolog	3.19	
427051	BE178110	Hs.173374	Homo sapiens cDNA FLJ10500 fis. clone NT	3.19	
438378	AW970529	Hs.86434	hypothetical protein FLJ21816	3.19	
439943	AW083789	Hs.124620		3.18	
439280	AI125436	Hs.48752	ESTs	3.18	
452336	AA960961	Hs.305953	zinc finger protein 83 (HPF1)	3.17	
433713	AW976511	Hs.112592	ESTs	3.16	
414998	NM_002543	3Hs.77729	oxidised low density lipoprotein (lectin	3.14	
407328	AA508857	Hs.187748	ESTs, Weakly similar to ALU1_HUMAN ALU :	S	3.14
432722	AA830532	Hs.326150	ESTS	3.14	
419457	AA243146	Hs.209334	ESTs, Moderately similar to S23A_HUMAN P	3.11	
449987	AW079749	Hs.184719			3.11
418522	AA605038	Hs.7149	Homo saplens cDNA: FLJ21950 fis, clone H	3.09	
409969	AW514668	Hs.194258	ESTs, Moderately similar to ALU5_HUMAN A	3.08	
436299	AK000767	Hs.5111	hypothetical protein FLJ20729	3.08	
406687	M31126	Hs.272620	pregnancy specific beta-1-glycoprotein 9	3.07	
408242	AA251594	Hs.43913	PIBF1 gene product	3.07	
	R44284	Hs.2730	heterogeneous nuclear ribonucleoprotein	3.06	
459407			gb:za22h11.r1 Soares fetal liver spleen	3.05	
	AI878910	Hs.3688	cisplatin resistance-associated overexpr	3.04	
	AW971063			3.03	
	AI932285	Hs.160569		3.03	
	A1860558		ESTs, Weakly similar to ALU2_HUMAN ALU		3.03
	R08950		ESTs, Weakly similar to ALU1_HUMAN ALU		3.02
	AL117518	Hs.3686	KIAA0978 protein	3.01	
440428	BE560954		gb:601347719F1 NIH_MGC_8 Homo sapiens	æ	3.00

TABLE 21A

Table 21A shows the accession numbers for those pkeys lacking unigeneID's for Table 21A. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Pkey:

Unique Eos probeset identifier number

CAT number.

Gene cluster number

Accession:

Genbank accession numbers

Pkey CAT Number Accession

409760	115373_1	AA302840 T93016 T92950 AA077551
413497	1373771_1	BE177661 H06215 BE144709 BE144829
417670	1692163_1	R07785 T85948 T86972
418876	179960_1	AA740616 AA654854 AA229923
419145	182217 <u>1</u>	N99638 AW973750 AA328271 H90994 AA558020 AA234435 N59599 R94815
423974	233842_1	AL118754 AA333202 H38001
430068	312849_1	AA464984 M85405 AA947566
432340	345248_1	AA534222 AA632632 T81234
433586	370470_1	T85301 AW517087 AA601054 BE073959
434280	382816_1	BE005398 AA628622 AA994155
434966	396504_1	AA657494 AI582663 AI581639
438962	467390_1	BE046594 BE046667 AA828585 AI207343
439848	477806_1	AW979249 D63277 AA846968
440428	493701	BE560954
440638	499025_1	Al376551 T87714 AA897445
456332	179104_1	AA228357 AW841786 AW841716

TABLE 21B

Pkey: Ref.

Unique number corresponding to an Eos probeset
Sequence source. The 7 digit numbers in this column are Genbank Identifier (GI) numbers. "Dunham I. et al." refers to the publication
entitled "The DNA sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495.
Indicates DNA strand from which exons were predicted.
Indicates nucleotide positions of predicted exons.

Strand:

Nt_position:

Pkey

Ref

Nt_position

404571

7249169 Minus

Strand

112450-112648

TABLE 22: 177 GENES DOWN-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO NORMAL COLON TISSUE

Table 22 shows 177 genes down-regulated in colon cancer derived liver metastases compared to normal colon tissue. These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" normal colon tissues was less than or equal to 0.25. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" normal adult tissue level was set to the 50th percentile.

Pkey: ExAccn:

Unique Eos probeset identifier number

ExAccn: Exem

Exemplar Accession number, Genbank accession number

UnigenelD: Unigene Title: Unigene number Unigene gene title

011-901. P1-

Genes down mets vs. normal

Pkey	ExAccn	UnigeneiD	Unigene Title	R1	
425196	AL037915	Hs.155097	carbonic anhydrase II	0.03	
	AW518944		step II splicing factor SLU7	0.03	
	W03754	Hs.50813	hypothetical protein FLJ20022	0.03	
	AU076405		solute carrier family 26 (sulfate transp	0.03	
			disintegrin protease	0.04	
	Al286323		hypothetical protein MGC12335	0.04	
			hypothetical protein FLJ20217	0.04	
			hydroxysterold (17-beta) dehydrogenase 2	0.05	
	AF007216		solute carrier family 4, sodium bicarbon	0.05	
			ESTs, Moderately similar to ALU7_HUMAN A		
	A1738616		hydroxyprostaglandin dehydrogenase 15-(N	0.06	
			chloride channel, calcium activated, fam	0.06	
			polycythemia rubra vera 1; cell surface	0.07	•
	AW293464			0.07	
	Y11339		GaiNAc alpha-2, 6-sialyltransferase I, I	0.07	
414555	N98569	Hs.76422	phospholipase A2, group IIA (platelets,	0.08	
412047	AA934589	Hs.49696	ESTs	0.08	
412056	T28160	Hs.778	guanylate cyclase activator 1B (retina).	0.08	
422440	NM_004812	2Hs.116724	aldo-keto reductase family 1, member B10	0.08	
450684	AA872605	Hs.25333	Interleukin 1 receptor, type II	0.09	
418935	T28499	Hs.89485	carbonic anhydrase IV	0.09	
	L03678		immunoglobulin kappa constant	0.09	
			regenerating gene type IV	0.09	
	AF017986		secreted frizzied-related protein 2	0.09	
	U03749		chromogranin A (parathyroid secretory pr	0.09	
	AI733306		hypothetical protein FLJ21302	0.10	
	AF017987	Hs.7306	secreted frizzled-related protein 1	0.10	
	AI694143	Hs.296251		0.10	
	AK000072		chloride channel, calcium activated, fam	0.10	
	W25005	Hs.24395	small inducible cytokine subfamily B (Cy	0.10	
	A1793107	Hs.27018	Ris	0.10	
	M16801	Hs.1790	nuclear receptor subfamily 3, group C, m	0.11	
	AW583807		glucagon	0.11	
	AU076819		solute carrier family 26, member 3	0.11	
	AA058357		carcinoembryonic antigen-related cell ad	0.11	
414176	BE140638	Hs.75794	endothellal differentiation, lysophospha	0.11	
408741	M73720	Hs.646	carboxypeptidase A3 (mast cell)	0.11	
424527	AW138558	Hs.267158	ESTs, Wealty similar to I54374 gene NF2	0.12	
	AV660038		UDP glycosyltransferase 1 family, polype	0.12	
	AW009077			0.12	
	AL049977			0.13	
	AK000184		acid sphingomyelinase-like phosphodieste	0.13	
	AA505035			0.13	
	U78093	Hs.15154	sushi-repeat-containing protein, X chrom	0.14	
	AJ010901			0.14	
			mucin 4, tracheobronchial		
	NM_00187			0.14	
		ms.210473	Homo saplens cDNA FLJ14872 fis, clone PL	0.14	
406636	L12064		gb:Homo sapiens (clone WR4.12VL) anti-th	U.14	

457982	AW856093	Hs.183617	ESTs	0.14	
	AB020629	Hs.38095	ATP-binding cassette, sub-family A (ABC1	0.14	
430378	Z29572	Hs.2556	tumor necrosis factor receptor superfami	0.14	
424885	Al333771	Hs.82204	ESTs	0.14	
423555	AW958201	Hs.178589	hepatocellular carcinoma antigen gene 52	0.14	
444237	AA336878	Hs.9842	Human DNA sequence from clone RP4-788L2	20	0.14
445848	AA774824	Hs.13377	Homo saplens done 23649 and 23755 unkno	0.14	
451062	AL110125		Homo sapiens mRNA; cDNA DKFZp564C141	6 (f	0.14
	X59135	Hs.156110		0.14	
	AA722425		ESTs, Moderately similar to 1207289A rev	0.15	
	AW972717		hypothetical protein FLJ21511	0.15	
	AK000134		hypothetical protein FLJ20127	0.15	
430712	AW044647	Hs.196284	ESTs	0.15	
421666	AL035250	Hs.1408	endothelin 3	0.16	
425692	D90041	Hs.155956	N-acetyltransferase 1 (arylamine N-acety	0.16	
429412	NM_006235	Hs.2407	POU domain, class 2, associating factor	0.16	
433745	AF075320	Hs.28980	hypothetical protein FLJ14540	0.16	
450085	AW293791	Hs.60162	Homo sapiens cDNA: FLJ21528 fis, clone C	0.16	
417820	D87449	Hs.82635	UDP-glucuronic acid/UDP-N-acetylgalactos	0.16	
406722	H27498	Hs.293441	Homo sapiens SNC73 protein (SNC73) mRN/	١,	0.16
426488	X03350	Hs.4	alcohol dehydrogenase 1B (class I), beta	0.16	
436327	AA813075	Hs.120181	ESTs	0.16	
408873	AL046017	Hs.182278	calmodulin 2 (phosphorylase kinase, delt	0.16	
429524	AB033037	Hs.205293	KIAA1211 protein	0.16	
447023	AA356764	Hs.17109	integral membrane protein 2A	0.17	
424264	D80400	Hs.239388	Human DNA sequence from clone RP1-3048	14	0.17
410310	J02931	Hs.62192	coagulation factor ili (thrombopiastin,	0.17	
432563	NM_013261	IHs.198468	peroxisome proliferative activated recep	0.17	
406897			gb:Homo sapiens mucin (mucin) mRNA, part	0.17	
451096	BE383234	Hs.25925	Homo sapiens, done MGC:15393, mRNA, co	m	0.17
447726	AL137638	Hs.19368	matrilln 2	0.17	
409549	AB029015	Hs.54886	phospholipase C, epsilon 2	0.17	
433334	AI927208	Hs.231958	matrix metalloproteinase 28	0.17	
425849	AJ000512	Hs.296323	serum/glucocorticoid regulated kinase	0.17	
407360	X13075		gb:Human 2a12 mRNA for kappa-immunoglot	าน	0.17
430627	U61148	Hs.247685	atonal homolog 1 (Drosophila)	0.17	
418807	NM_004944	Hs.88646	deoxyribonuclease I-like 3	0.18	
453399	Z70295	Hs.32966	guanylate cyclase activator 2B (uroguany	0.18	
422994	AW891802	Hs.296276	ESTs	0.18	
432134	AI816782	Hs.122583	hypothetical protein FLJ21934	0.18	
400417	X72475			0.18	
443506	H10661	Hs.192124	ESTs, Weakly similar to I38022 hypotheti	0.18	
428470	AC002301	Hs.184507	Homo sapiens Chromosome 16 BAC clone Cl	T	0.18
451928	A1823801	Hs.30315	CTCL tumor antigen se57-1	0.18	
429576	BE242628		sudD (suppressor of bimD6, Aspergillus n	0.18	
422106	D84239	Hs.111732	Fc fragment of IgG binding protein	0.19	
430304	AL122071	Hs.238927	Homo sapiens mRNA; cDNA DKFZp434H123	5 (f	0.19
	AK001972		hypothetical protein FLJ11110	0.19	
421904	BE143533	Hs.109309	hypothetical protein FLJ20035	0.19	
	R80137		Homo sapiens cDNA: FLJ21425 fis, done C	0.19	
	AA804698		retinoic acid receptor responder (tazaro	0.19	
452802	AU076403	Hs.323468	electron-transferring-flavoprotein dehyd	0.19	
	AF131784		Homo sapiens clone 25194 mRNA sequence	0.19	
	AW024937		ESTs	0.19	
	NM_000020			0.19	
	AB032963		ATPase, Class I, type 8B, member 2	0.19	
	AAA76652			0.19	
		Hs.94952	Homo sapiens cDNA: FLJ23371 fis, clone H		
	H56112		gb:yq95f07.r1 Soares fetal liver spleen	0.19	
446727	H56112 AB011095	Hs.16032		0.19	
408395	H56112 AB011095 BE072425	Hs.16032 Hs.44579	gb:yq95f07.r1 Soares fetal liver spleen	0.19 0.20	
408395 423541	H56112 AB011095 BE072425 AA296922	Hs.16032 Hs.44579 Hs.129778	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastroIntestinal peptide	0.19 0.20 0.20	
408395 423541 410850	H56112 AB011095 BE072425 AA296922 AW362867	Hs.16032 Hs.44579 Hs.129778 Hs.302738	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastroIntestinal peptide	0.19 0.20 0.20 0.20	
408395 423541 410850 412420	H56112 AB011095 BE072425 AA296922 AW362867 AL035668	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Horno sapilens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2	0.19 0.20 0.20 0.20 0.20 0.20	
408395 423541 410850 412420 423942	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853 Hs.135723	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saptens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycollpid transfer protein	0.19 0.20 0.20 0.20 0.20 0.20 0.20	
408395 423541 410850 412420 423942 421832	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853 Hs.135723 BHs.108725	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapilens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein	0.19 0.20 0.20 0.20 0.20 0.20 0.20	
408395 423541 410850 412420 423942 421832 459046	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016090 AA910339	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853 Hs.135723 3Hs.108725 Hs.26216	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50627	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20	
408395 423541 410850 412420 423942 421832 459046 421360	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016096 AA910339 AA297012	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853 Hs.135723 3Hs.108725 Hs.26216 Hs.103839	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50527 erythrocyte membrane protein band 4.1-li	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20	
408395 423541 410850 412420 423942 421832 459046 421360 438091	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016090 AA910339	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853 Hs.135723 3Hs.108725 Hs.26216 Hs.103839	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50627	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421360 438091 403047	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016094 AA910339 AA997012 AW373062	Hs.16032 Hs.44579 Hs.129778 Hs.302738 Hs.73853 Hs.135723 Hs.108725 Hs.26216 Hs.103839 Hs.83623	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastroIntestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group I, m	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421360 438091 403047 421712	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016094 AA910339 AA297012 AW373062 AK000140	Hs. 16032 Hs. 44579 Hs. 129778 Hs. 302738 Hs. 73853 Hs. 135723 Hs. 108725 Hs. 26216 Hs. 103839 Hs. 83623 Hs. 107139	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycollipid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group I, m hypothetical protein	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421360 438091 403047 421712 427333	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016094 AA910339 AA297012 AW373062 AK000140 AF067797	Hs. 16032 Hs. 44579 Hs. 129778 Hs. 302738 Hs. 73853 Hs. 135723 Hs. 108725 Hs. 26216 Hs. 103839 Hs. 83623 Hs. 107139 Hs. 176658	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaportn 8	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421360 438091 403047 421712 427333 421964	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016094 AA910339 AA297012 AW373062 AK000140 AF067797 X73079	Hs. 16032 Hs. 44579 Hs. 129778 Hs. 302738 Hs. 73853 Hs. 135723 Hs. 108725 Hs. 26216 Hs. 103839 Hs. 83623 Hs. 107139 Hs. 176658 Hs. 288579	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaporin 8 polymeric immunoglobulin receptor	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421360 438091 403047 421712 427333 421964 438089	H56112 AB011095 BE072425 AA295922 AW362867 AL035668 AF209704 NM_016093 AA910339 AA910339 AA97012 AW373062 AK000140 AF067797 X73079 W05391	Hs. 16032 Hs. 44579 Hs. 129778 Hs. 302738 Hs. 73853 Hs. 135723 3Hs. 108725 Hs. 26216 Hs. 103839 Hs. 83623 Hs. 107139 Hs. 17658 Hs. 228579 Hs. 83623	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycollpid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaportn 8 polymertc immunoglobulin receptor nuclear receptor subfamily 1, group I, m	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421809 403047 421712 427333 421964 438089 445200	H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016094 AA910339 AA297012 AW373062 AK000140 AF067797 X73079	Hs. 16032 Hs. 44579 Hs. 129778 Hs. 302738 Hs. 73853 Hs. 135723 3Hs. 108725 Hs. 26216 Hs. 103839 Hs. 83623 Hs. 107139 Hs. 17658 Hs. 228579 Hs. 83623	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaporin 8 polymeric immunoglobulin receptor	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	
408395 423541 410850 412420 423942 421832 459046 421360 438091 403047 421712 427333 421964 438089 445200 404854	H56112 AB011095 BE072425 AA295922 AW362867 AL035668 AF209704 NM_016093 AA910339 AA910339 AA97012 AW373062 AK000140 AF067797 X73079 W05391	Hs. 16032 Hs. 44579 Hs. 129778 Hs. 302738 Hs. 73853 Hs. 135723 3Hs. 108725 Hs. 103839 Hs. 83623 Hs. 107139 Hs. 176658 Hs. 288579 Hs. 83623 Hs. 12409	gb:yq95f07.r1 Soares fetal liver spteen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo saplens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycollpid transfer protein HSPC040 protein LOC50627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaportn 8 polymertc immunoglobulin receptor nuclear receptor subfamily 1, group I, m	0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	

403381				0.21	
449833	R82252	Hs.106108	protein kinase (cAMP-dependent, catalyti	0.21	
457718	F18572	Hs.22978	ESTs, Weakly similar to ALU4_HUMAN ALU	S	0.21
435730	AB020635	Hs.4984	KIAA0828 protein	0.21	
431518	AA743462	Hs.165337	ESTs	0.21	
412589	R28660	Hs.24305	ESTs	0.21	
432584	AA928829	Hs.47099	hypothetical protein FLJ21212	0.21	
426088	AF038007	Hs.166196	ATPase, Class I, type 8B, member 1	0.21	
	AA333327	Hs.197335	plasma glutamate carboxypeptidase	0.21	
414429	R51494	Hs.71818	ESTs	0.22	
439670	AF088076	Hs.59507	ESTs, Wealty similar to AC004858 3 U1 sm	0.22	
406697	M21388	Hs.123017	Human unproductively rearranged ig mu-ch	0.22	
406663	U24683	Hs.302063	Immunoglobulin heavy constant mu	0.22	
407811	AW190902	Hs.40098	cysteine knot superfamily 1, BMP antagon	0.22	
417880	BE241595	Hs.82848	selectin L (lymphocyte adhesion molecule	0.22	
430107	AA465293	Hs.105069		0.22	
424273	W40460	Hs.144442	phospholipase A2, group X	0.22	
	Y07828	Hs.91096	ring finger protein	0.22	
413517	N76712	Hs.44829	ESTs, Weakly similar to 138022 hypotheti	0.22	
407243	AA058357	Hs.74466	carcinoembryonic antigen-related cell ad	0.22	
433906	Al167816	Hs.43355	ESTs	0.22	
446203	Z47553	Hs.14286	flavin containing monooxygenase 5	0.22	
403740			,,	0.22	
405701				0.22	
413554	AA319146	Hs.75426	secretogranin II (chromogranin C)	0.22	
419577	L36531	Hs.91296	integrin, alpha 8	0.23	
451820	AW058357	Hs.337353		0.23	
424897	D63216	Hs.153684	frizzled-related protein	0.23	
422880	AF228704	Hs.121524	glutathione reductase	0.23	
430832	AI073913	Hs.100686	ESTs, Weakly similar to JE0350 Anterior	0.23	
	AI432401	Hs.2659	fibrinogen-like 2	0.23	
409060	AI815867	Hs.50130	necdin (mouse) homolog	0.23	
	AW503785	Hs.73792	complement component (3d/Epstein Barr vi	0.24	
414171	AA360328	Hs.865	RAP1A, member of RAS oncogene family	0.24	
	NM_006416		solute carrier family 35 (CMP-siatic aci	0.24	
	AA149791		ESTs, Weakly similar to phosphatidylseri	0.24	
427167	Al239607	Hs.99196	hypothetical protein MGC11324	0.24	
		Hs.239388	Human DNA sequence from clone RP1-304B	14	0.24
	AA320829		protocadherin 18	0.24	
441931	BE564830	Hs.23744	hypothetical protein FLJ12899	0.24	
443060	D78874	Hs.8944	procollagan C-endopeptidase enhancer 2	0.24	
405441			. •	0.24	
407241	M34516		gb:Human omega light chain protein 14.1	0.24	
415165	AW887604	Hs.78065	complement component 7	0.24	
426447	AV655843	Hs.169919	electron-transfer-flavoprotein, alpha po	0.24	
410748	BE383816	Hs.12532	chromosome 1 open reading frame 21	0.24	•
436032	AA150797	Hs.109276	latexin protein	0.24	
	AW410035		MAD (mothers against decapentaplegic, Dr	0.24	
414197	W44877	Hs.55501	ESTs	0.24	
406836	AW514501	Hs.156110	immunoglobulin kappa constant	0.24	
	AW082597			0.25	
421709	AA159394	Hs.107056	CED-6 protein	0.25	
426512	AW511656	Hs.170177	Meis1 (mouse) homolog	0.25	
			-		

TABLE 22A

Table 22A shows the accession numbers for those pkeys lacking unigeneID's for Tables 21A. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Pkey: CAT number: Unique Eos probeset identifier number

Gene cluster number Genbank accession numbers

Accession:

Pkey CAT Number Accession

449110 798430_1 H56112 H58047 Al630710 N58742

TABLE 22B

Pkey: Ref:

Unique number corresponding to an Eos probeset
Sequence source. The 7 digit numbers in this column are Genbank Identifier (GI) numbers. "Dunham I. et al." refers to the publication
entitled "The DNA sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495.
Indicates DNA strand from which exons were predicted.
Indicates nucleotide positions of predicted exons.

Strand:

Nt_position:

Pkey	Ref	Strand	Nt_position
403047	3540153	Minus	59793-59968
403381	9438267	Minus	26009-26178
403740	7630882	Plus	86504-87227
404854	7143420	Plus	14260-14537
405441	7408124	Plus	100952-101283
405701	4263751	Phie	93243-93364

TABLE 23: 175 GENES UP-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO COLON CANCER PRIMARY TUMOR SAMPLES CLASSIFIED AS DUKE'S B SURVIVOR

Table 23 shows 175 genes up-regulated in colon cancer derived liver metastases compared to colon cancer primary tumor samples classified as Duke's B stage with a positive survival outcome (Duke's B survivor). These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" Duke's B survivor was greater than or equal to 3.0. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" Duke's B survivor level was set to the 50th percentile.

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

R1: Genes up liver metastases vs Duke's B survivors

Pkey	ExAcen	UnigenelD	Unigene Title	R1
426101	AL049987	Hs.166361	Homo saplens mRNA; cDNA DKFZp564F112 (fr	9.06
	A1660840		ESTs, Weakly similar to ALUE_HUMAN IIII	7.96
424878	H57111	Hs.221132		7.88
428046	AW812795	Hs.155381	ESTs, Moderately similar to I38022 hypot	7.48
	Al539227		hypothetical protein FLJ23556	7.45
439943	AW083789	Hs.124620	ESTs	7.00
442369	AI565071	Hs.159983	ESTs	7.00
415116	AA160363	Hs.269956	ESTs	6.98
433517	AW022133	Hs.189838	ESTs	6.70
	AW176909		calcineurin-binding protein calsarcin-1	6.68
	R71264	Hs.16798	ESTs	6.62
			Homo saplens cDNA: FLJ21532 fis, clone C	6.38
	AL049390		Homo saplens mRNA; cDNA DKFZp586O1318 (
	A1689496	Hs.108932		6.04
	R07785		gb:yf15c06.r1 Soares fetal liver spleen	5.95
	Ai420611	Hs.127832		5.91
	T94907	Hs.188572		5.90
	AA704806		ESTs, Weakly similar to 2004399A chromos	5.84
	R10799	Hs.191990		5.84
	AA135159		Homo sapiens cDNA FLJ12149 fls, clone MA	5.67
	BE218886			5.61
			Homo sapiens cDNA FLJ12142 fis, done MA	5.60 5.54
			Homo sapiens done IMAGE:713177, mRNA se	5.51
	AA508857 AL042005		ESTs, Weakly similar to ALU1_HUMAN ALU S	5.48
	W22152	Hs.282929	tripeptidyl peptidase II	5.42
	AA456195			5.29
	AV651680			5.24
	AI241331		ESTs, Moderately similar to I38937 DNA/R	5.11
	BE350122		ESTs, Weakly similar to 178885 serine/th	5.11
434966	AA657494	. 10. 101 001	gb:nt66f04.s1 NCI_CGAP_Pr3 Homo saplens	5.10
	AW976570	Hs.97387	ESTs	5.08
	A1076345	Hs.214199		5.07
	AA532718			5.00
420717	AA284447	Hs.271887		4.96
	AA602917	Hs.156974		4.94
	BE046594		gb:hn41c11.x1 NCI_CGAP_RDF2 Homo sapien:	s 4.92
	AI760942	Hs.191754		4.89
435812	AA700439	Hs.188490	ESTs	4.86
418662	AI801098	Hs.151500	ESTs	4.79
428065	A1634046	Hs.157313		4.77
407618	AW054922		Homo sapiens cDNA FLJ12366 fis, clone MA	4.75
435981		Hs.188620		4.74
419145	N99638		gb:za39g11.r1 Soares fetal liver spleen	4.73
	AA534222		gb:nj21d02.s1 NCI_CGAP_AA1 Homo sapiens	4.72
447982	H22953	Hs.137551	ESTS	4.72

440500	4.1.004.045	11-04564	FAT-	4 70
	AA001615		ESTS	4.72
	AA226495 AW080237			4.70 4.68
			Homo sapiens cDNA FLJ13255 fis, clone OV	4.62
426R1R	A A E E A O O O O	Ho 200446	DKFZp434A0131 protein	4.62
45222n	BE158006	He 242206	ECT.	4.60
436823	VALLACORE	He 2026/6	ESTs, Weakly similar to I38022 hypotheti	4.60
	AA610649			4.56
	AW958181			4.52
	AA421020			4.52
	A1280112		Homo saplens cDNA FLJ13266 fis, clone OV	4.50
	AA192455			4.48
	AL118754	NS.22300	gb:DKFZp761P1910_r1 761 (synonym: hamy2)	4.44
	A1076459	Hs.15978	KIAA1272 protein	4.44
	AW295859			4.44
	AA740616	113.233000	gb:ny97f11.s1 NCI_CGAP_GCB1 Homo sapiens	
		He 155768	ESTs, Weakly similar to A47582 B-cell gr	4.42
	AA744550			4.42
	AA489166			4.40
	T93096	Hs.17126	hypothetical protein MGC15912	4.40
	Al954880	Hs.134604		4.36
	U50535		Human BRCA2 region, mRNA sequence CG006	
	Al174777	He 283039	Homo sapiens PRO2492 mRNA, complete cds	4.33
	AA878324			4.32
	Al253112	Hs.133540		4.30
	H72531	Hs.36190		4.30
	AA564489	-		4.30
	AA608955			4.30
	AA230228			4.28
	AA769266			4.26
			Homo sapiens mRNA; cDNA DKFZp564F133 (fr	
	AI948688	Hs.266619		4.22
			ESTs, Weakly similar to I38022 hypotheti	4.22
	AW136134			4.22
	T58283	Hs.10450	Homo sapiens cDNA: FLJ22063 fis, clone H	4.22
	AW960454			4.21
	W94472	Hs.59529		4.20
	AW607444			4.20
	AA830532			4.18
	AI418466			4.14
	AID84336		ESTs, Weakly similar to I38022 hypotheti	4.14
	AF086270		heterochromatin-like protein 1	4.12
	AW898533			4.12
	AI826999	Hs.224624		4.12
			peptidylprolyl isomerase A (cyclophilin	4.11
			ESTs, Weakly similar to ALU1_HUMAN ALU S	4.10
	AI034357	Hs.211194	ESTs, Weakly similar to ALU8_HUMAN ALU S	4.08
450177	Al698091	Hs.107845		4.08
420911	U77413	Hs.100293	O-linked N-acetylglucosamine (GlcNAc) tr	4.06
421114	AW975051	Hs.293156	ESTs, Weakly similar to 178885 serine/th	4.06
432731	R31178	Hs.287820	fibronectin 1	4.06
433588	AI056872	Hs.133386	ESTs	4.06
434658	A1624436	Hs.310286	ESTs	4.06
	AF204231			4.06
	AA453987			4.06
			ESTs, Weakly similar to ALU1_HUMAN ALU S	4.04
	AA847510			4.04
			ESTs, Moderately similar to S65657 alpha	4.02
			ESTs, Highly similar to cytokine recepto	4.00
			Homo sapiens cDNA FLJ12300 fis, done MA	4.00
	AW362803			3.97
			ESTs, Moderately similar to PC4259 femi	3.95
	AW205632			3.95
	Al982794	Hs.159473		3.92
	BE088746		gb:CM2-BT0693-210300-123-d09 BT0693 Homo	
			KIAA0421 protein	3.86
			ESTs, Weakly similar to I38022 hypotheti	3.85
	Z48633		H.sapiens mRNA for retrotransposon	3.84
	AW973253			3.83
	AA811244			3.83
	AL043683		hypothetical protein FLJ10803	3.83
	T97301	Hs.18026	ESTs	3.82
	AW450536			3.80
424915	R42755	Hs.23096	ESTS	3.76
			ESTs, Weakly similar to ALU1_HUMAN ALU S	3.76
410200	AA177088	na. 190005	EOIS	3.75

44040~	DF4004		-L. D. O. J. 1970 CO. CO. CO. C. C. L. C. C. L. C.	0.74
	BE177661		gb:RC1-HT0598-020300-011-h02 HT0598 Homo	
	BE242691		ESTs	3.74
	R08950	HS.272044	ESTs, Weakly similar to ALU1_HUMAN ALU S	3.73
	AK000777		Homo saplens cDNA FLJ20770 fis, clone CO	3.68
434442	AA737415	Hs.152826	ESTs	3.63
434959	AW974949	Hs.186564	ESTs, Weakly similar to I38022 hypotheti	3.63
	AW971063			3.62
			BANP homolog, SMAR1 homolog	3.60
	AA699325	Hs.269880	ESTs	3.60
432598	Al341227	Hs.157106	ESTs	3.57
	AA810141	Hs.192182	ESTs	3.55
422068	Al807519	Hs.104520	Homo saplens cDNA FLJ13694 fis, clone PL	3.54
418259	AA215404	Hs.137289	ESTs	3.54
428290	AI932995	Hs.183475	Homo sapiens clone 25061 mRNA sequence	3.49
	AA243146	Hs.209334	ESTs, Moderately similar to S23A_HUMAN P	3.47
	AA833902			3.47
	AW971350		ESTs	3.45
	AA228357		gb:nc39d05.r1 NCL_CGAP_Pr2 Homo sapiens	3.45
	AL119442	Hs 183684	eukaryotic translation initiation factor	3.44
	AI076570	Hs.134053		3.44
	AW449855			3.43
	Al133446		Homo sapiens clone FLB7723 PRO2055 mRNA,	
	AA478883			3.39
	AA236282		— - · ·	3.38
	T62926			3.37
		Hs.304184		
	H72245	Hs.188635		3.37
	R51790		Human clone 23933 mRNA sequence	3.35
	BE327036		— - · ·	3.33
	AA640987			3.28
	AF085833			3.28
	AW295687			3.25
	Al285970	Hs.183817		3.22
	AF095687	Hs.26937	brain and nasopharyngeal carcinoma susce	3.18
	Al809314	Hs.208501	ESTs, Weakly similar to B34087 hypotheti	3.18
	BE156536		gb:QV0-HT0368-310100-091-h10 HT0368 Homo	
	AA664078		gb:ac04a05.s1 Stratagene lung (937210) H	3.13
450295	Al766732	Hs.210628		3.13
	N71463		ESTs, Weakly similar to ALU1_HUMAN ALU S	3.13
434495	AW352170	Hs.129086	Homo sapiens cDNA FLJ12007 fis, clone HE	3.12
408113	T82427	Hs.194101	Homo sapiens cDNA: FLJ20869 fis, clone A	3.12
456437	AI924228	Hs.115185	ESTs, Moderately similar to PC4259 ferri	3.12
421489	AI922821	Hs.32433	ESTs	3.12
436090	AI640635	Hs.116468	EST	3.11
	AW016607			3.11
438011	BE466173	Hs.145696	splicing factor (CC1.3)	3.09
	AI381687	Hs.39526	ESTs	3.09
	AI343966	Hs.158528		3.08
	AW510927			3.05
	AI798851		hemoglobin, gamma G	3.04
	AW452420			3.04
	AA830893			3.02
	Al263231	Hs.327090		3.02
	AA678267			3.00
· OCCUP-T				5.50

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TABLE 23A

Table 23A show the accession numbers for those pkeys lacking unigeneID's for tables 1-20A, 21A, 22A, and 23A. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Unique Eos probeset identifier number

CAT number: Accession:

Gene cluster number Genbank accession numbers

Pkey CAT Number Accession

413497	1373771_1	BE177661 H06215 BE144709 BE144829
413672	1382512_1	BE156536 BE156439 BE156700 BE156449 BE156653 BE156533 BE156524 BE15670 BE156721 BE156723
417670	1692163_1	R07785 T85948 T86972
418876	179960_1	AA740616 AA654854 AA229923
419145	182217_1	N99638 AW973750 AA328271 H90994 AA558020 AA234435 N59599 R94815
423974	233842_1	AL118754 AA333202 H38001
432340	345248_1	AA534222 AA632632 T81234
434966	396504_1	AA657494 AI582663 AI581639
435073	399701_1	AA664078 AW363313 AA805009
438962	467390_1	BE046594 BE046667 AA828585 AI207343
455778	1364506_1	BE088746 BE088802 BE088755 BE088876 BE088947 BE088881 BE088952
456332	179104 1	AA228357 AW841786 AW841716

TABLE 24: 34 GENES DOWN-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO COLON CANCER PRIMARY TUMOR SAMPLES CLASSIFIED AS DUKE'S B SURVIVOR

Table 24 shows 34 genes down-regulated in colon cancer derived liver metastases compared to colon cancer primary tumor samples classified as Duke's B stage with a positive survival outcome (Duke's B survivor). These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" Duke's B survivor was greater than or equal to 0.25. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" Duke's B survivor level was set to the 50th percentile.

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

R1: Genes down liver metastases vs Duke's B survivors

Pkey	ExAccn	UnigenelD	Unigene Title	R1
414522	AW518944	Hs.76325	step II splicing factor SLU7	0.05
416768	AA363733	Hs.1032	regenerating islet-derived 1 alpha (panc	0.07
409153	W03754	Hs.50813	hypothetical protein FLJ20022	0.07
	N98569	Hs.76422	phospholipase A2, group IIA (platelets,	0.11
	M13509	Hs.83169	matrix metalloproteinase 1 (Interstitial	0.11
424326	NM 01447	9Hs.145296	disintegrin protease	0.11
			chloride channel, calcium activated, fam	0.12
	W25005	Hs.24395	small inducible cytokine subfamily B (Cy	0.12
			regenerating gene type IV	0.12
			carbonic anhydrase II	0.13
	AF017986		secreted frizzled-related protein 2	0.13
	L15533	Hs.423	pancreatitis-associated protein	0.14
	AW190902		cysteine knot superfamily 1, BMP antagon	0.15
	Al286323	Hs.97411	hypothetical protein MGC12335	0.16
	AK001972		hypothetical protein FLJ11110	0.17
			ESTs, Moderately similar to ALU7_HUMAN A	0.17
			gastrointestinal peptide	0.17
			deiodinase, lodothyronine, type II	0.18
	L12064	VI 13. 10 T T&T	gb:Homo sapiens (clone WR4.12VL) anti-th	0.18
	Y11339	He 105352	GalNAc alpha-2, 6-sialytransferase I, I	0.18
	BE440042		matrix metalloproteinase 3 (stromelysin	0.19
	X72755	Hs.77367	monokine induced by gamma interferon	0.20
	AU076405		solute carrier family 26 (sulfate transp	0.20
	AA321649		small inducible cytokine subfamily B (Cy	0.21
	M73720	Hs.646	carboxypeptidase A3 (mast cell)	0.21
	R40334	Hs.89463	potassium large conductance calcium-acti	0.21
	AW293464			0.22
	L03678		immunoglobulin kappa constant	0.22
	A1422867	Hs.88594	ESTs	0.22
	BE241595		selectin L (lymphocyte adhesion molecule	0.22
			interleukin 7 receptor	0.23
	Al250789	Hs.32478	ESTs	0.23
	J02931	Hs.62192	coagulation factor III (thromboplastin,	0.24

TABLE 24B

Pkey: Ref:

Unique number corresponding to an Eos probeset
Sequence source. The 7 digit numbers in this column are Genbank identifier (GI) numbers. "Dunham I. et al." refers to the publication entitled "The DNA sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495. Indicates DNA strand from which exons were predicted. Indicates nucleotide positions of predicted exons.

Strand:

Nt_position:

Pkey

Ref

Nt_position

402408

9796239 Minus

Strand

110326-110491

TABLE 25:

Table 25 depicts Seq ID No., UnigeneID, UnigeneTitle, Pkey, and ExAccn for all of the sequences in Table 26. Seq ID No links the nucleic acid and protein sequence information in Table 26 to Table 25.

Pkey: ExAccn: Unigene Unigene Seq.ID.I	elD: U Title: U	xemplar Acce Inigene numb Inigene gene			
Pkey	ExAcen	UnigenelD	Unigene Title	Seq ID No.	
426101	AL049987		Homo sapiens mRNA; cDNA DKFZp564F112 (fr	1-4	
	N99638		gb	5 & 6	
426818	AA554827	Hs.340046		7 & 8	
421057	T58283		Homo saplens cDNA	9	
	AU076643	Hs.313	secreted phosphoprotein 1 (osteopontin,	10 & 11	
431958	X63629	Hs.2877	cadherin 3, type 1, P-cadherin (placenta	12 & 13	•
409041	AB033025	Hs.50081	Hypothetical protein, XP_051860 (KIAA119	14 &15	
443162	T49951	Hs.9029	DKFZP434G032 protein	16 &17	
436385	BE551618	Hs.144097	ESTs	18-20	
447033	Al357412	Hs.157601	ESTs	21 & 22	
439608	AW864696	6 Hs.301732	hypothetical protein MGC5306	23-27	
449032	AA045573	Hs.22900	nuclear factor (erythroid-derived 2)-lik	28 & 29	
442577	AA292998	Hs.163900	ESTs	30 & 31	
429970	AK000072	Hs.227059	chloride channel, calcium activated, fam	32 & 33	
424566	M16801	Hs.1790	nuclear receptor subfamily 3, group C, m	34 & 35	
457407		Hs.345911	ESTs	36	
	Z29572	Hs.2556	tumor necrosis factor receptor superfami	37 & 38	
417332	AW972717	7 Hs.288462	hypothetical protein FLJ21511	39 & 40	

TABLE 25A

Pkey:

Unique Eos probeset identifier number

CAT number: Accession:

Gene cluster number Genbank accession numbers

Pkey CAT Number	Accession
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409041

10962_2 AB033025 AL359061 AL045836 AI751521 AI752804 AI752650 AA853580 AI752290 AA853460 AI752769 AA852309 AA853785 AA853219 AW068503 AI752069 AL049389 AW068368 BE439518 W52813 BE141833 AI940574 AI750606 AL109718 AA242845 AA315795 AA307741 AW954603 AI752070 AA350794 AI752649 AA307755 AW951677 AA298896 BE439692 AA852453 AW068826 AW853984 AA418236 AA639417 AW290917 AI750592 AI752768 AL045837 AI926513 AW262903 BE439819 Al459360 AW339074 AW295181 AW029483 Al750945 Al750659 Al752525 Al147688 BE440122 Al751522 Al473816 AI752291 AI694639 AI925816 AA599476 AA242752 AW021892 AI755098 AW469299 AW769363 AA853579 AI784082

AA852454 AI925501 AA976657 AW150473 AW166734

417332 166755 1

AW972717 AA523805 AI962905 AI373245 AW235545 AI812045 AW589434 AI826824 AW572339 AI377551 AA195718

AI868470

419145 182217_1

N99638 AW973750 AA328271 H90994 AA558020 AA234435 N59599 R94815

421057 198849_1

T58283 AA765038 AA283052 H99396 AA814751 Al032674 N81016 N81017 BE222349 AA830545

424566 2408_1

M16801 NM_000901 D57171 AL041328 AF068623 AI201179 AA151766 AA568349 AI698649 AI692765 BE327401 AA744953 AA744951 AW361986 AV651840 T29894 AW945146 AW945145 W24096 AI183952 AI458972 AW190993 AI765359 AI634663 AI741201 AW418944 AI767551 AA679687 AW772342 AW629508 BE504300 AI251790 AI522294 AA724341 AW615402 AI537570 AA470665 AI458375 AW768901 AA447079 T23537 AI783744 R44301 D56621 N91919 AA149749

426101 26088_1

AL049987 AW362842 T78981 AA247541 AI217018 AW961515 AA632986 AA663108 BE326465 AW872412 AI024689 AA453725 BE150456 AA229448 AA442638 AA442648 AI916737 AA460220 AA868553 AI827987 AI005467 R31132 AI742087 AA442379 N56349 AW769479 AI860142 AI917507 AA813604 AI860141 AI459289 AA522837 AI354470 AI921333 BE466760 AW971193 AW103830 AW277065 AW020895 A1187977 N28268 A1084517 R95914 AA833517 AA563934 AA437299 AA436880 AA447794
AA812876 AA663178 R31089 A1472712 R64648 AA600372 AA229164 AA703066 AW270324 A1191725 AA551512 AA493776 AA554827 AA701001 AW972954 AL039129 AA385540 AA911663

426818 272427_1 429970 31134_1

AK000072 AW840683 AW843764 AW844444 AW844515 AW603469 AW862395 Al860838 AW511708 AF127035 NM_012128

AK000138

430378 3170_1

Z29572 AW976377 AA286871 AA633372 AA987627 AA743176 AI865358 AJ006884 AF031845 Z14955

431958 3394_1

X63629 NM_001793 BE175433 BE153414 BE153425 AW364593 BE315317 AW950190 AA314252 BE142943 AW365220 AW368405 BE004269 AW366568 AL040609 AI829273 AI591168 BE146183 AI631060 AI830793 W78081 W92295 AI927422 BE009313 AI371793 AW993031 AI204659 AA535113 AW993030 AI190281 AA555159 AW269637 AW993146 AI149268 AA425217 AW473194 AI890930 AA551993 AI952106 W92308 AI827275 W45400 AI952328 AW609233 AA774611 AA551779 AI913967 AI798658 AI537658 AW517535 AA632236 AW339148 AW589522 AA836945 AA961263 AW015821 AW272946

C00249 W40333 BE143121

436385 418907_1 439608 47438 3

BE551618 Al207338 BE220568 Al261568 AW841737 AA714722 AA946891 Al033239

AW864696 AW338889 AI342866 AA084522 AI244150 AI610339 AA425635 AA764930 AA976965 AW805766 AA057765 AW805845 AW802595 AA262971 AI969620 N75323 BE549060 AW805725 AA025809 N80776 N64595 AW073372 AA025493 AI819475 AW028879 AW189496 AA442907 AW410368 AI911629 N71276 AW316922 AW805838 AA043880 AW189184 AA449756 AA748153 AA705608 AI910643 AA279492 BE160119 AW805761 AA026262 AA782207 AW057652 AW805768 H21998 AW194254 AW275178 AA449040 AA279582 N76314 N54348

442577 54549_1

AA292998 AW238350 AI676059 AW074092 BE566458 AW078677 AW514801 AW073701 AW170620 AI523736 AI580870 Al923975 Al393326 Al700229 AW450814 AW628452 Al671457 AA937534 Al889694 AW339423 AW291875 AA551874

Al682314 Al926227 AA397375

443162 5613_1

T49951 AA025326 H04839 AA393303 R63101 W57657 W25628 AI961431 R71165 N39940 H01548 H01759 AA641624 Al634930 AA595296 AW994770 AW994747 BE047247 W38159 AA858133 Al701944 AW386273 AA676625 R24676 R79410 AA922863 AI151319 H01013 AA024482 W02674 H01456 AI150858 AW135972 AW631167 AI270332 H04750 T49622 AA004543 R63061 Al093066 Al247539 H01225 H03388 AW472933 AA382448 Al219287 N27194 AW389613 AA649738 AW994764 AW389614 R25176 AA897262 R71626 AA909471 R71240 AW811917 R76109 AI202312 AI866010 R76162 AL117538 R79411 T58656 AW994674

446619 685_1

AU076643 AA594604 AA346866 R18197 AA345192 AA337773 AA089791 R84435 AA337838 AW392167 AA075190 D55416 AW150360 AW366257 AA579816 H93048 AW385689 AW385697 AI186216 AW581197 AL037509 AB019562 AA232626 R97905 AW368019 AA242891 AW888502 AI798331 AW385635 AW581221 T96947 H87989 AA369511 AA075191 R80742 AA366406 W92752 H45586 Al864016 AW888497 BE004992 Al384110 Al624256 Al627593 W92728 Al682719 AA948208 AA171734 N40517 J04765 AA379957 AA362403 NM_000582 AF052124 AA300290 AA333447 AA343721 AW889543 BE566767 R76601 R18015 AA100531 AA489963 AA101296 AA363513 AA344088 AA336750 T77505 D56440 AL110351 AL110331 F12195 R20175 AA336664 H17766 AA363538 AA363590 D28760 AW578517 AA363531 AI814667 AA846899 AA366253 AW951285 AA297992 AA327756 AW361609 AW815455 AW815427 AW815428 D54182 AW852200 AA171630 W27018 AW815864 AW379995 AW378222 AW362610 BE566022 AW021023 C17352 D58435 AA345409 AI623991 AW020967 AI924770 AI799443 AW946393 AA991239 AI571617 AI935181 AI923999 AI826895 AI860319 AW189873 AW270353 AW023584 AI813811 R99929 AW339056 AA913152 AI636352 AI829394 AW151077 AW192580 AI570119 AI086391 AW021764 AW519154 AI375193 AW268678 BE465690 AW019983 AW268654 AI573138 AI141809 AI954553 AI559242 AA568945 AA886417 AW338527 AI635881 BE465666 AI921239 AA968537 AI956027 AA911981 AI827661 AW511046 BE619780 AI922227 AI811870 AW190131 AW129220 AW512906 AI290757 AI819088 AI623771 AA775616 BE349419 AI126375 H88773 AI241758 AW275157 AI337848 AI613425 AI631387 AA922631 AI273483 AI982898 AW168957 AI446481 BE501588 BE048264 AI499922 AW023812 BE220523 AW973846 BE349276 Al141091 AA976060 AW973845 AA101270 Al582472 AW613675 Al139360 Al282627 Al276044 N22345 AI261875 AA634136 AI824468 AW887693 N27107 R21504 AI042223 N22067 AW196871 AI581019 BE004973 AA252035 N22087 AA570717 H11250 AI804026 AA368098 AA021512 H08842 N26275 AA176368 AI758758 AA570371 AA232574 BE221177 AW190221 AW471386 M78225 AH22140 AI624521 AA719775 AA300291 AA568657 AI871430 BE465630 N71862 T72587 W92721 H88774 D54383 AW103693 AW089986 AI382689 R42363 R44962 T98770 AA357374 AW022074 AI356207 T29241 AW089431 AI933875 N66267 N67352 AA121786 AA363910 F09824 T95618 N66888 R80550 AI280667 AW196719

R59299 AW021049 H73469 AI954311 BE439454 AW079450 AW973850 AA348338 AW896006 AW268145 AA853631 H17650 R39537 N66873 N67240 H06298 AI784199 R44260 AA904118 AA911756 F04544 AA807809 AA665210 AI696448 T29719

AA837240 T64844 H08926

447033 704603_1 449032 7945_1

A4357240 104844 105326 A43572412 A1870708 A1590539 W07459 AA045573 AA279920 R20139 AA372783 AW963629 H21473 R78318 W74359 AA022505 AA369091 AW084075 AA503638 AV660815 A1216262 AA779843 BE219825 AF125534 AW972129 A1919099 A1621283 A1300590 A1953701 AA331415 AW610546 AW793050 A1953679 AW793047 AW610543 A1671103 AW292105 AW024112 R77947 W76339 AA305111 AA132523 AA227467 H21401 AW366572 AW024129 A1701886 A1654744 BE042803 A1347173 AW866053 AW662710 R36639 A1469777 AA962733

Al865366 AA501998 AW866054 BE178974 AA505035 AW235098 Al634028

Table 26

Seq ID NO: 1 DNA sequence Nucleic Acid Accession #:

31

41 51

11 21

see Table 25 & 25A for complete list

Seq ID NO: 2 <u>DNA sequence</u> Nucleic Acid Accession #: X83301.1

31

41

GCAAAGCCAG CTGGGCTCCT GAGTCCGGTG GGTACTTGGA GAACTTACTA CGTCTAGCTG 60 GAGGATTGTA AATGCACCAA TCAGCATGCT GTGTCTAGCT CAAGATTTTC TCCATCCCCT 120
TATTTTGGGC CAGTGGCTGT CATTACATAT GAGATGAGTC TCTTGAAGAC TACAGATGAA 180 CTCAAGCTCC ATGAGGAGAT GTTTCATTGT CGAGAGCAGT CATGATGGCC TGCACTCCAC 240 ACAATGCAAC AGAGTGAAAG AGCAGGTTCT GCTTCTTTGG TGTAGTCCTG AAGCTTCCTA 300 AGAAACTTCA CATCAGGTGA TGGATAGGAG CAACCCTGTA AAACCAGCCT TAGACTATTT TTCAAACAGG CTGGTGAATT ACCAGATCTC CGTCAAGTGC AGTAACCAGT TCAAGTTGGA 420
AGTGTGTCTT TTGAATGCAG AGAACAAAGT CGTGGACAAC CAGGCTGGGA CCCAGGGCCA 480
GCTGAAGGTG CTGGGTGCCA ACCTCTGGTG GCCGTACCTG ATGCACGAAC ACCCCGCCTA 540
CCTGTACTCC TGGGAGGATG GTGATTGCTC ACACCAAAGC CTTGGACCCC TCCCAGCCTG 600 TGACCTTTGG GACCAACTCC ACCTACGCAG CAGACAAGGG GGCTCTGTAT GTGGATGTGA 660 TCCGTGTGAA CAGCTACTAC TCTTGGTATC GCAACTACGG GCACCTGGAG TTGATTCGGC 720
TGCAGCTGGC CGCCCAGTTT GAGAATTGGT GTGAGACATC ACAATCCCAT TATTCAGAGC 780
GCGTATGGAG TGGAAACGCT TGTAGGGTTT CACCAGGGCT GGTGAATTAC CAGATCTCCG 840 TCAAGTGCAG TAACCAGTTC AAGTTGGAAG TATGTCTTTT GAATGCAGAA AACAAAGTCG 900 TGGACAACCA GGCTGGGACC CAGGGCCAGC TGAAGGTGCT GGTGCCAACC TCTGGTGGCC 960 GTACCTGATG CACGAACACC CCGCCTACCT GTACTCGTGG GAGGATGGTG ATTGCTCACA 1020 CCAAAGCCTT GGACCCCTCC CAGCCTGTGA CCTTTGGGAC CAACTCCACC TACGCAGCAG 1080 ACAAGGGGGC TCTGTATGTG GATGTGATCC GTGTGAACAG CTACTACTCT TGGTATCGCA 1140 ACTACGGGCA CCTGGAGTTG ATTCGGCTGC AGGCCCTGCA GCTGGCCGCC CAGTTTGTGA 1200 ATTGGTGTAA GACATCACAA TCCCATTATT CAGAGCGCGT ATGGAGTGGA AACGCTTGTA 1260 GGGTTTCACC AGTCTTTCCC AGGGAACTCC GATGAAGTGT TCCAACAAAA TGAGCGAGTG 1320 AACCAAGAAG AGGATGACAT TAGATCCAGG AGATACAACA GAGGAGATAA TCTCCAGGAT 1380 GCCTGTGAAG AAAGATCCCT GGATCCCAGG ATGATTATAG GACAAGTTGT TCATAATCCA 1440 GCAGGCCAGA AGACTTCCAG GGAAACTCAT TTCAAGATGA AAATGGACCA GCCGCAGTGG 1500 CTCACGCCTG TAATACCAGC ACTTTGGGAG GCTGAGGCGG GCGGATCACT TGAGGTCAAG 1560 AGTTIGAAC TAGCCTGGCC AACGTGGCAA AACTCCATCT CTATTAAAGA TACAAAAATT 1620
AGCCAGGCAT AGTGGTGCAT GCCTGTAGTC CCAGCTACTT GGGATGCTGA GGCAGGAAGA 1680
ATTGCTTGAA CCTGGGAGGC AGAGTCTGCG GTGACCGAGA TCATGCCACT GCACTCCAGC 1740
CTGGGTGACA GAGCCAGACT CCGTCTCTAC TAAAAAAAAA AAAAAAAAA AAA

Seq ID NO: 5 Protein sequence: Protein Accession #: AAH02622.1

1 11 21 31 41 51

MDRSNPVKPA LDYFSNRLVN YQISVKCSNQ FKLEVCLLNA ENKVVDNQAG TQGQLKVLGA 60 NLWWPYLMHE HPAYLYSWED GDCSHQSLGP LPACDLCDQL HLRSRQGGSV CGCDPCEQLL 120 LLVSQLRAPG VDSAAAGRPV

Seq ID NO: 6 DNA sequence Nucleic Acid Accession #:

see Table 25 & 25A for complete list

1 11 21 31 41 51

ACCTGAGATC AGGAGTTCGA GATCAGCCTG ACCAATAGGG TGAAACCCCG TCTCTACTAA 60
AAATACAAAA AATTAGCTGG ACACGATGGT GGGTGCCTGT GGTCCCGGCT ACTCGGGAGG 120
CTGAGACAGG AGAATCAGTT GACCTGGGAG TTGGTGGTTG CAGTGAGCTG AGATCACACC 180
ATTGCATTCC AAGCCTGGGC AACAAGAGTG AAACTCCATC GCAAAAAAAA AAAAGAAGG 240
GCATAATTTG TGGATGAGGA TTGGATATAA GGTAAAGGAT GGGACATTCT TGGACTTACA 300
GATGGTGTGA TGCCTGGCT AGAAGAAGAA TTCCCGGTCA AAAAAGAAACC ATCAGCTTTC 360
CAAGTGTGAA AGAGAAAAA ATCTGTGAAAG ATTATAGGGA CTACAGGAAA CTTAATCTTT 420
TTCTTTGAAA AAGCAATTGT AGCAAAAAAA AAGAAAACTT CTTACTGTCA TCTAAAATTG 480
ACATGGACAT CTTAGTGGAC TAGAAGTTAA GGGCATAAAAT TCTCCCAGTG ATTTTTAATT 540
TTATAGTATG CATCAAAATT TAGTAGCTGT TTCAGGCTTT AATAAATAAT TCTTTTCAT 600
TATTAGTATG CCATCAAATT TAGTAGCTGT TTCAGGCTTT AATGTGTCAA GCCTAAAATC 660
CAGATTTTTG AGGACCTG TATACATCAG TCTAAAAATAA TAAACTGCTCC GTAGAAATAC 720
ACATGTATAC AAGGGCACTG TATACATCAG TCTAAAAAAAA AAAAAAATTG ATACCGTTCTG 780
GTGAGTCTAG CACAGCATTG CCCAATAGAA ATACCAATGG AGGTCACAAA TGTGGCCCAT 840
ATAGGTTAAT TGGTAAAATTT TCTNATAGNC ACC

Seq ID NO: 7 <u>DNA sequence</u>
Nucleic Acid Accession #: AK000942
Coding sequence: 1204-1503

CTCAG

Seq ID NO: 8 DNA sequence Nucleic Acid Accession #:

see Table 25 & 25A for complete list

1 11 21 31 41 51

GACTAGGCTG GGCAACATAG TGAGGACCTCA TCTCTAAAAT TAAAAAAATA AAAGCCACCA 60 GAAAAAAAACC TAAAAACATG CCAAGTGACA TCAGTCTTTG ATGAAAATA AAAGCCACCA 60 GAAAAAAACC TAAAAACATG CCAAGTGACA TCAGTCTTTG ATGAAAATAG CAGCAGAAGA 120 GTGATGCCAT GGGTGGGGGT GGGAAATGCT ATTTCAGCAG AGAGGGAGCT GTCATGGAAG 180 ACACCATGTG GCTGGGCACG GTGGCTCACA CCTGTAATCC CAGCACTTTG GGAGATAGAG 240 GCAGGTGGAT CCCTTGAGCT TAGGAAATTTG AGACTAGCCT GGGCAATAAG AGTGAAACTC 300 CATCTCAAAA AAAAAAAAAA AAAAAGGTGC ATGAAACATA TGAAGCAAAA AGTGAAAGTC 360 CCCATTCTTT TCCTTTTTTCC AGAGGTGATT TTTGTGGCCA ATCTGGTTTC ATTCCCTCCC 420 AGACACTTTT CTAGGCATCT ATGCGCCTCT ATTCACATAT AAACAAAATA GGAGTTTTTCC 480 TGTGCTTCCC TTAAATGGCA TATGTATCTT TCACTCTTTT TTTTTCACCTA GTGGATCTTT 540 AATACCTTAA AAGCTCAACC TGGGCTTGGT GCGGTGGCTC ATACGTGTAA TCCCAGGCCT 600 TTGGGAGGCC AAGGTGGGAG GATCACTTGA GCTCAGAGCAT TCCAAAACAA 660 AAACAAAAGG ATTTTGAGAT CAGTGTGGC AACTTAGCAA AACACCATCT CTTAAAAAAAAA 720 AAAAAAAAAAA

Seq ID NO: 9 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 3-335

BC010433.1

1 11 21 31 41 51

GGTCGCCCTC CGTCGTGGTC TGGCGTGTAT TCCGAGCCTT GGTGTCTGGC GGTTTCCGAG 60 CGTTGGTGTC TGGCGGTTTC CGAGCGTTGG TGTCTGGCGG TTTCCGACCG TTGGTGTCTG 120 GCGGTTTCCG ACCGTTGGTG TCTGGCACGC GCCACCCTCT CTTGCTTTGG TTGCGCCATG 180
CCGATGTACC AGACAAGAAG ACAAGAAAAT GATTTGAGGA CAGCTTCAAT CGCGGTGTGA 240
AGAAGAAAGC AGCAAAACGA CCACTGAAAA CAACGCCGGT GGCAAAATAT CCAAAGAAAG 300 GGTCCCAAGC GGTACATCGT CATAGCCGGA AACAGTCAGA GCCACCAGCC AATGATCTTT 360 TCAATGCTGC GAAAGCTGCC AAAAGTGACA TGCAGCACCG AGAAGTCCGC GTGAAGTGCG 420
TGAAGGCTCT GAAAGGGCTG TACGGTAACC GGGACCTGAC CGCACGCCTG GAGCTCTTCA 480 CTGGCCGCTT CAAGGACTGG ATGGTTTCCA TGATCATGGA CAGAGAGTAC AGTGTGGCAG 540 TGGAGGCCGT CAGATTACTG ATACTTATCC TTAAGAACAT GGAAGGGGTG CTGATGGACG 600 TGGACTGTGA GAGCGTCTAC CCCATTGTGT AGGCCTCTAA TTGAGGCCTG GCCTCTGCTG 660 TGGGTGAATT TCTGTACTGG AAACTTTTCT ACCCTGAGTG CGAGATAAGA ACGATGGGTG 720 GAAGAGAGCA ACGCCAGAGC CCAGGTGCCC AGAGGACTTT CTTCCAGCTT CTGCTGTCCT 780 TCTTTGTGGA GAGCAAGCTC CACGACCACG CTGCTTACTT AGTAGACAAC CTGTGGGACT 840 GTGCAGGGAC TCAGCTGAAG GACTGGGAGG GTCTGACAAG CCTGCTGCTO GAGAAGGACC 900 AGAGCACGTG CCACATGGAG CCAGGGCCAG GGACCTTCCA CCTCCTAGGG TGAAACCAGG 960 AGAGATTGCT TGCTTCACTT GTACAAGGCA GGAACGGTGG CATGGGGTGG GGGAAACTTG 1020 GAGTTGGAAG GTGGCTAATC TTTGATTCTA TGTTTTTGAT CCTCCTGGCA CTCCAGACCT 1080 GGGTGATGTG CAGGAGAGCA CACTGATAGA AATCCTTGTG TCCAGTGCCC AGCAACTCCT 1140 GCCTCAGCCT CCCGAGCAGC TGGGACTACA GGCGCCCGCC ACCACGCCTG GCTAACTTTT 1200 TTGTGTTTTT AGTAGAGACG GGTTTTCACC GTGTTGGCCA GGATGGTCTT GATCTCTTGA 1260 CCTTGTGATC CACCTGCCTC ATCATCCCAA AGTGCTGGGA TTACAGGCGT GAGCCACTGC 1320 GCCCAGCATG TTAGACAATT TTTAATTCAT CCTCTCTGTG CTGTTGTTTT CTCAGCTGTG 1380 AAAGGAATAT TCTGGTGGGG ACAAGGTTAC AGAGTTGCTG AGAGGGTCTC ATGACATGAA 1440 GGTACTGGCC TTGGCACAGT GCCTGGGGGG GCGGGGACTC CGCACATGCC TGTGATGTCA 1500 CAGTTACTGT CAGTTCACAG CGAACCTTCC CTCCTTTTCC TGTTGACTTT CCCACACTCC 1560 CACACACACA CACACACACA CACACACTCC ATTCACTGTC TCCATGACTC TGGAGTAAAC 1680 TAACGTCTCG AGTTGCCATT GGAAGCCCCG TTGTCCTCAT TTAGACTTTC ATGGGTTATA 1740 GGCACTTTTG ACTTCCTGGG GTCCTTCTTC AGTTAAAAAA AAAAATTAGA AAATTAGGCC 1800 GGGCGTGGTG GCACATGCCT GTAATCCCAG CACCTTGGCC TCCCAAAGTG CTGGGATTAC 1860 AGGAGTGAGC CACCATGCCC AGCCTCCGTT GTCCTCATTT AGACTTTCAT GGGTTATAGG 1920 CACTITIGAC TICCIGGGT CCTICTICAG TIAAAAAAA AAAAAAAAAA

Seq ID NO: 10 <u>DNA sequence</u> Nucleic Acid Accession #:

21

31

41

51

11

see Table 25 & 25A for complete list

AGTGGNTCCC CCGGNCTGCA GGAATTCGGC ACGAGATCAT GATGGCTAAT ATTTCCTGAG 60
CACCTTTCAT TCAGGCATGA TGCCAGGTGC ACCAACTTAC TTAATCCTCA TAGCCACCAC 120
CTGAGCAAGC TCCTGTTTTA TAAATGGACC AGTTCTTGTT GCTGTTGTAC AAGTTATTT 180
CTTTCTATAA CGTGCCTCCTT GTCCTCCTTC CACATTCTTA AAGAAACTTT CCCTTCCTTT 240
AAAGTACTCA GGGAGCCCTG CATTGCTTCT TGAAGCCTTC TCCAGCTTCA TCATCTCACA 300
GTGGTCTCCT TTTTCACTAA ATGTCCAATA TGCTGCACAT AAGTACCCCA AAGTTAGCAC 360
AGGAATTGTT CCATGGCTGT CATATATGTT AAAAATCATT AAAAGTTCAT TTTTTCTCTC 420
ATTATGGGAA GGATACATGC TCCTACTAGT AAAATTTATAGTA GGTAGAAAAA AATTATCACT 480
ATCTAGACTG CTTTCCATTT AGTCTTTATG CATAGCTTC GTGTCTGCCT ATTTTTACCT 540
TGTGTTTTGTA ACCTACTATT ATAAAAATATG CGTCTCTATG TTCATTGTCA ACCAATTATTT 600
ACAATAACAT GGAGTGGATT TACATGTATT CCTATATTT GGATTAAAGG AGATAGAGTA 660
TGTGAAATTA AATGGGAGAA GTATCTGATA CATAACAAGC AATACAAATA TTATCACATA 720
GCGTCAATTT ATTTTGTGAAT ATTGAAAGCT CCAAAAAAGA AAAAAGTTT TTTTTTAATT 780
CCCGTAATTA CTTATTGCAG TATTTGTGTTC ATACCAACTC CTCAGTCATT TTGGAAAAAA 900
AAAGAAGGAAC ATGCTAAAGA AAAAAAATATC CCCATATAAT CTCTGTCTTC ATAAATAATC 960
TTTTGTAACG CTTATACACT GCTGGTGGGA ATGTAAAATA CTCTGGTCTTC ATAAATAATC 960
TTTTGTAACG CTTATACACT GCTGGTGGGA ATGTAAATA CTCTGTCTTC ATAAATAATC 960
TTTTGTAACG CTTATACACT GCTGGTGGGA ATGTAAATA CTCTGTCTTC ATAAATAATC 960
TTTTGTAACG CTTATACACT GCTGGTGGGA ATGTAAATA CTCTGTCTTC ATAAATAATC 960
TTTTGTAACG CTTATACACT GCTGGTGGGA ATGTAAATTA GTTCAGCCAT TGTGAAAAAAGT 1020

AGCGTAGCAA TTCCTTGAAA AACTTAAAAT AGATTTACCG TTCAACCCAG CAATCCCATT 1080 ATTGGGCATA TACCCAGTGG AATGTAAATC ATCCTGCCAT AAAAACACAT GCACATGTAT 1140 GTTCATTGCA GCACTATTCA CAATAGCAAA GACATGGAAT CAACCTATAT GCCCATCAAT 1200 AGTAGACTGA ATAAAGAAAA TATGGTACAT ATTCACCACA GAATACTAAG CAGCCATAAA 1260 AAAAAAA

GCAGAGCACA GCATCGTCGG GACCAGACTC GTCTCAGGCC AGTTGCAGCC TTCTCAGCCA 60 AACGCCGACC AAGGAAAACT CACTACCATG AGAATTGCAG TGATTTGCTT TTGCCTCCTA 120 GGCATCACCT GTGCCATACC AGTTAAACAG GCTGATTCTG GAAGTTCTGA GGAAAAGCAG 180 CTTTACAACA AATACCCAGA TGCTGTGGCC ACATGGCTAA ACCCTGACCC ATCTCAGAAG 240 CAGAATCTCC TAGCCCCACA GACCCTTCCA AGTAAGTCCA ACGAAAGCCA TGACCACATG 300 GATGATATGG ATGATGAAGA TGATGATGAC CATGTGGACA GCCAGGACTC CATTGACTCG 360 AACGACTCTG ATGATGTAGA TGACACTGAT GATTCTCACC AGTCTGATGA GTCTCACCAT 420 TCTGATGAAT CTGATGAACT GGTCACTGAT TTTCCCACGG ACCTGCCAGC AACCGAAGTT 480 TTCACTCCAG TTGTCCCCAC AGTAGACACA TATGATGGCC GAGGTGATAG TGTGGTTTAT 540 GGACTGAGGT CAAAATCTAA GAAGTTTCGC AGACCTGACA TCCAGTACCC TGATGCTACA 600 GACGAGGACA TCACCTCACA CATGGAAAGC GAGGAGTTGA ATGGTGCATA CAAGGCCATC 660 CCCGTTGCCC AGGACCTGAA CGCGCCTTCT GATTGGGACA GCCGTGGGAA GGACAGTTAT 720 GAAACGAGTC AGCTGGATGA CCAGAGTGCT GAAACCCACA GCCACAAGCA GTCCAGATTA 780 TATAAGCGGA AAGCCAATGA TGAGAGCAAT GAGCATTCCG ATGTGATTGA TAGTCAGGAA 840 CTTTCCAAAG TCAGCCGTGA ATTCCACAGC CATGAATTTC ACAGCCATGA AGATATGCTG 900 GTTGTAGACC CCAAAAGTAA GGAAGAAGAT AAACACCTGA AATTTCGTAT TTCTCATGAA 960 TTAGATAGTG CATCTTCTGA GGTCAATTAA AAGGAGAAAA AATACAATTT CTCACTTTGC 1020 ATTTAGTCAA AAGAAAAAAT GCTTTATAGC AAAATGAAAG AGAACATGAA ATGCTTCTTT 1080 CTCAGTTTAT TGGTTGAATG TGTATCTATT TGAGTCTGGA AATAACTAAT GTGTTTGATA 1140 ATTAGTTTAG TTTGTGGCTT CATGGAAACT CCCTGTAAAC TAAAAGCTTC AGGGTTATGT 1200
CTATGTTCAT TCTATAGAAG AAATGCAAAC TATCACTGTA TTTTAATATT TGTTATTCTC 1260
TCATGAATAG AAATTTATGT AGAAGCAAAC AAAATACTTT TACCCACTTA AAAAGAGAAT 1320
ATAACATTTT ATGTCACTAT AATCTTTTGT TTTTTAAGTT AGTGTATATT TTGTTGTGAT 1380
TATCTTTTTG TGGTGTGAAT AAACTTTTTA TCTTGAATGT AATAAGAATT TGGTGGTGTC 1440 AATTGCTTAT TTGTTTTCCC ACGGTTGTCC AGCAATTAAT AAAACATAAC CTTTTTTACT 1500 GCCTAAAAAA AAAAAAAAAAA AAAA

Seq ID NO: 12 <u>Protein sequence:</u> Protein Accession #: NP_000573.1

1 11 21 31 41 51

MRIAVICFCL LGİTCAIPVK QADSGSSEEK QLYNKYPDAV ATWLNPDPSQ KQNLLAPQTL 60
PSKSNESHDH MDDMDDEDDD DHVDSQDSID SNDSDDVDDT DDSHQSDESH HSDESDELVT 120
DFPTDLPATE VFTPVVPTVD TYDGRGDSVV YGLRSKSKKF RRPDIQYPDA TDEDITSHME 180
SEELNGAYKA IPVAQDLNAP SDWDSRGKDS YETSQLDDQS AETHSHKQSR LYKRKANDES 240
NEHSDVIDSQ ELSKVSREFH SHEFHSHEDM LVVDPKSKEE DKHLKFRISH ELDSASSEVN

 Seq ID NO: 13 <u>DNA sequence</u>

 Nucleic Acid Accession #:
 NM_001793

 Coding sequence:
 71-2560

 1
 11
 21
 31
 41
 51

ACTGATTGAT GTCAATGACC ATGGCCCAGT CCCTGAGCCC CGTCAGATCA CCATCTGCAA 1740 CCAAAGCCCT GTGCGCCAGG TGCTGAACAT CACGGACAAG GACCTGTCTC CCCACACCTC 1800 CCCTTTCCAG GCCCAGCTCA CAGATGACTC AGACATCTAC TGGACGGCAG AGGTCAACGA 1860 GGAAGGTGAC ACAGTGGTCT TGTCCCTGAA GAAGTTCCTG AAGCAGGATA CATATGACGT 1920 GCACCTTTCT CTGTCTGACC ATGGCAACAA AGAGCAGCTG ACGGTGATCA GGGCCACTGT 1980 GTGCGACTGC CATGGCCATG TCGAAACCTG CCCTGGACCC TGGAAGGGAG GTTTCATCCT 2040 CCCTGTGCTG GGGGCTGTCC TGGCTCTGCT GTTCCTCCTG CTGGTGCTGC TTTTGTTGGT 2100 GAGAAAGAAG CGGAAGATCA AGGAGCCCCT CCTACTCCCA GAAGATGACA CCCGTGACAA 2160 CGTCTTCTAC TATGGCGAAG AGGGGGGTGG CGAAGAGGAC CAGGACTATG ACATCACCCA 2220 GCTCCACCGA GGTCTGGAGG CCAGGCCGGA GGTGGTTCTC CGCAATGACG TGGCACCAAC 2280 CATCATCCCG ACACCCATGT ACCGTCCTCG GCCAGCCAAC CCAGATGAAA TCGGCAACTT 2340 TATAATTGAG AACCTGAAGG CGGCTAACAC AGACCCCACA GCCCCGCCCT ACGACACCCT 2400 CTTGGTGTTC GACTATGAGG GCAGCGGCTC CGACGCCGCG TCCCTGAGCT CCCTCACCTC 2460 CTCCGCCTCC GACCAAGACC AAGATTACGA TTATCTGAAC GAGTGGGGCA GCCGCTTCAA 2520 GAAGCTGGCA GACATGTACG GTGGCGGGGA GGACGACTAG GCGGCCTGCC TGCAGGGCTG 2580 GGGACCAAAC GTCAGGCCAC AGAGCATCTC CAAGGGGTCT CAGTTCCCCC TTCAGCTGAG 2640 GACTTCGGAG CTTGTCAGGA AGTGGCCGTA GCAACTTGGC GGAGACAGGC TATGAGTCTG 2700 ACGTTAGAGT GGTTGCTTCC TTAGCCTTTC AGGATGGAGG AATGTGGGCA GTTTGACTTC 2760 AGCACTGAAA ACCTCTCCAC CTGGGCCAGG GTTGCCTCAG AGGCCAAGTT TCCAGAAGCC 2820
TCTTACCTGC CGTAAAATGC TCAACCCTGT GTCCTGGGCC TGGGCCTGCT GTGACTGACC 2880
TACAGTGGAC TTTCTCTCTG GAATGGAACC TTCTTAGGCC TCCTGGTGCA ACTTAATTTT 2940
TTTTTTTAAT GCTATCTTCA AAACGTTAGA GAAAGTTCTT CAAAAGTGCA GCCCAGAGCT 3000 GCTGGGCCCA CTGGCCGTCC TGCATTTCTG GTTTCCAGAC CCCAATGCCT CCCATTCGGA 3060 TGGATCTCTG CGTTTTTATA CTGAGTGTGC CTAGGTTGCC CCTTATTTTT TATTTTCCCT 3120 GTTGCGTTGC TATAGATGAA GGGTGAGGAC AATCGTGTAT ATGTACTAGA ACTTTTTTAT 3180 TAAAGAAACT TTTCCCAGAA AAAAA

Seq ID NO: 14 Protein sequence: Protein Accession #: NP_001784.2

1 11 21 31 41 51

MGLPRGPLAS LLLLQVCWLQ CAASEPCRAV FREAEVILEA GGAEQEPGQA LGKVFMGCPG 60
QEPALFSTDN DDFTVRNGET VQERRSLKER NPLKIFFSKR ILRRHKRDWV VAPISVPENG 120
KGPFPQRLNQ LKSKKDRDTK IFYSITGPGA DSPPEGVFAV EKETGWLLLN KPLDREELAK 180
YELFGHAVSE NGASVEDPMN ISIIVTDQND HKPKFTQDTF RGSVLEGVLP GTSVMQVTAT 240
DEDDAIYTYN GVVAYSHSQ EPKDPHDLMF THRSTGTIS VISSGLDREK VPEYTLTIQA 300
TDMDGDGSTT TAVAVVEILD ANDNAPMFDP QKYEAHVPEN AVGHEVQRLT VTDLDAPNSP 360
AWRATYLIMG GDDGDHFITI THPESNQGIL TTRKGLDFEA KNQHTLYVEV TNEAPFVLKL 420
PTSTATIVVH VEDVNEAPVF VPPSKVEVQ EGIPTGEPVC VYTAEDPDKE NQKISYRILR 480
DPAGWLAMDP DSGQVTAVGT LDREDEGFVR NNIYEVMVLA MDNGSPPTTG TGTLLLTLID 540
VNDHGPVPEP RQITICNQSP VRQVLNTTDK DLSPHTSPFQ AQLTDDSDIY WTAEVNEEGD 600
TVVLSLKKFL KQDTYDVHLS LSDHGNKEQL TVIRATVCDC HGHVETCPGP WKGGFILPVL 660
GAVLALLFLL LVLLLLVRKK RKIKEPLLLP EDDTRDNVFY YGEEGGGEED QDYDTIQLHR 720
GLEARPEVVL RNDVAFTIIP TPMYRPRPAN PDEIGNFIIE NLKAANTDPT APPYDTLLVF 780
DYEGSGSDAA SLSSLTSSAS DQDQDYDYLN EWGSRFKKLA DMYGGGEDD

| Seq ID NO: 15 <u>DNA sequence</u> | Nucleic Acid Accession #: XM_051860.2 | Coding sequence: 261-4346

1 11 21 31 41 51

GAGCTAGCGC TCAAGCAGAG CCCAGCGCGG TGCTATCGGA CAGAGCCTGG CGAGCGCAAG 60 CGGCGCGGGG AGCCAGCGGG GCTGAGCGCG GCCAGGGTCT GAACCCAGAT TTCCCAGACT 120 AGCTACCACT CCGCTTGCCC ACGCCCCGGG AGCTCGCGGC GCCTGGCGGT CAGCGACCAG 180 ACGTCCGGGG CCGCTGCGCT CCTGGCCCGC GAGGCGTGAC ACTGTCTCGG CTACAGACCC 240 AGAGGGAGCA CACTGCCAGG ATGGGAGCTG CTGGGAGGCA GGACTTCCTC TTCAAGGCCA TGCTGACCAT CAGCTGGCTC ACTCTGACCT GCTTCCCTGG GGCCACATCC ACAGTGGCTG 360 CTGGGTGCCC TGACCAGAGC CCTGAGTTGC AACCCTGGAA CCCTGGCCAT GACCAAGACC 420 ACCATGTGCA TATCGGCCAG GGCAAGACAC TGCTGCTCAC CTCTTCTGCC ACGGTCTATT 480 CCATCCACAT CTCAGAGGGA GGCAAGCTGG TCATTAAAGA CCACGACGAG CCGATTGTTT 540 TGCGAACCCG GCACATCCTG ATTGACAACG GAGGAGAGCT GCATGCTGGG AGTGCCCTCT 600 GCCCTTTCCA GGGCAATTTC ACCATCATTT TGTATGGAAG GGCTGATGAA GGTATTCAGC 660 CGGATCCTTA CTATGGTCTG AAGTACATTG GGGTTGGTAA AGGAGGCGCT CTTGAGTTGC 720 ATGGACAGAA AAAGCTCTCC TGGACATTTC TGAACAAGAC CCTTCACCCA GGTGGCATGG 780 CAGAAGGAGG CTATTTTTT GAAAGGAGCT GGGGCCACCG TGGAGTTATT GTTCATGTCA 840 TCGACCCCAA ATCAGGCACA GTCATCCATT CTGACCGGTT TGACACCTAT AGATCCAAGA AAGAGAGTGA ACGTCTGGTC CAGTATTTGA ACGCGGTGCC CGATGGCAGG ATCCTTTCTG 960
TTGCAGTGAA TGATGAAGGT TCTCGAAATC TGGATGACAT GGCCAGGAAG GCGATGACCA 1020
AATTGGGAAG CAAACACTTC CTGCACCTTG GATTTAGACA CCCTTGGAGT TTTCTAACTG 1080
TGAAAGGAAA TCCATCATCT TCAGTGGAAG ACCATATTGA ATATCATGGA CATCGAGGCT 1140 CTGCTGCTGC CCGGGTATTC AAATTGTTCC AGACAGAGCA TGGCGAATAT TTCAATGTTT 1200 CTTTGTCCAG TGAGTGGGTT CAAGACGTGG AGTGGACGGA GTGGTTCGAT CATGATAAAG 1260 TATCTCAGAC TAAAGGTGGG GAGAAAATTT CAGACCTCTG GAAAGCTCAC CCAGGAAAAA 1320 TATGCAATCG TCCCATTGAT ATACAGGCCA CTACAATGGA TGGAGTTAAC CTCAGCACCG 1380 AGGTTGTCTA CAAAAAAGGC CAGGATTATA GGTTTGCTTG CTACGACCGG GGCAGAGCCT 1440 GCCGGAGCTA CCGTGTACGG TTCCTCTGTG GGAAGCCTGT GAGGCCCAAA CTCACAGTCA 1500 CCATTGACAC CAATGTGAAC AGCACCATTC TGAACTTGGA GGATAATGTA CAGTCATGGA 1560 AACCTGGAGA TACCCTGGTC ATTGCCAGTA CTGATTACTC CATGTACCAG GCAGAAGAGT 1620 TCCAGGTGCT TCCCTGCAGA TCCTGCGCCC CCAACCAGGT CAAAGTGGCA GGGAAACCAA 1680 TGTACCTGCA CATCGGGGAG GAGATAGACG GCGTGGACAT GCGGGCGGAG GTTGGGCTTC 1740 TGAGCCGGAA CATCATAGTG ATGGGGGAGA TGGAGGACAA ATGCTACCCC TACAGAAACC 1800 ACATCTGCAA TTTCTTTGAC TTCGATACCT TTGGGGGCCA CATCAAGTTT GCTCTGGGAT 1860

TTAAGGCAGC ACACTTGGAG GGCACGGAGC TGAAGCATAT GGGACAGCAG CTGGTGGGTC 1920 AGTACCCGAT TCACTTCCAC CTGGCCGGTG ATGTAGACGA AAGGGGAGGT TATGACCCAC 1980 CCACATACAT CAGGGACCTC TCCATCCATC ATACATTCTC TCGCTGCGTC ACAGTCCATG 2040 GCTCCAATGG CTTGTTGATC AAGGACGTTG TGGGCTATAA CTCTTTGGGC CACTGCTTCT 2100 TCACGGAAGA TGGGCCGGAG GAACGCAACA CTTTTGACCA CTGTCTTGGC CACTGCTA 2160
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ACTCCTACCC GGGGTACATC CCCAAGCCCA GGCAAGACTG CAATGCTGTG TCCACCTTCT 2280
GGATGGCCAA TCCCAACAAC AACCTCATCA ACTGTGCCGC TGCAGGATCT GAGGAAACTG 2340 GATTITGGTT TATTITTCAC CACGTACCAA CGGGCCCCTC CGTGGGAATG TACTCCCCAG 2400 GTTATTCAGA GCACATTCCA CTGGGAAAAT TCTATAACAA CCGAGCACAT TCCAACTACC 2460 GGGCTGGCAT GATCATAGAC AACGGAGTCA AAACCACCGA GGCCTCTGCC AAGGACAAGC 2520 GGCCGTTCCT CTCAATCATC TCTGCCAGAT ACAGCCCTCA CCAGGACGCC GACCCGCTGA 2580
AGCCCCGGGA GCCGGCCATC ATCAGACACT TCATTGCCTA CAAGAACCAG GACCACGGGG 2640
CCTGGCTGCG CGGCGGGGAT GTGTGGCTGG ACAGCTGCCG GTTTGCTGAC AATGGCATTG 2700 GCCTGACCCT GGCCAGTGGT GGAACCTTCC CGTATGACGA CGGCTCCAAG CAAGAGATAA 2760 AGAACAGCTT GTTTGTTGGC GAGAGTGGCA ACGTGGGGAC GGAAATGATG GACAATAGGA 2820 TCTGGGGCCC TGGCGGCTTG GACCATAGCG GAAGGACCCT CCCTATAGGC CAGAATTTTC 2880 CAATTAGAGG AATTCAGTTA TATGATGGCC CCATCAACAT CCAAAACTGC ACTTTCCGAA 2940 AGTTTGTGGC CCTGGAGGGC CGGCACACCA GCGCCCTGGC CTTCCGCCTG AATAATGCCT 3000 GGCAGAGCTG CCCCCATAAC AACGTGACCG GCATTGCCTT TGAGGACGTT CCGATTACTT 3060 CCAGAGTGTT CTTCGGAGAG CCTGGGCCCT GGTTCAACCA GCTGGACATG GATGGGGATA 3120 AGACATCTGT GTTCCATGAC GTCGACGGCT CCGTGTCCGA GTACCCTGGC TCCTACCTCA 3180 CGAAGAATGA CAACTGGCTG GTCCGGCACC CAGACTGCAT CAATGTTCCC GACTGGAGAG 3240 GGGCCATTTG CAGTGGGTGC TATGCACAGA TGTACATTCA AGCCTACAAG ACCAGTAACC 3300 TGCGAATGAA GATCATCAAG AATGACTTCC CCAGCCACCC TCTTTACCTG GAGGGGGCGC 3360 TCACCAGGAG CACCCATTAC CAGCAATACC AACCGGTTGT CACCCTGCAG AAGGGCTACA 3420 CCATCCACTG GGACCAGACG GCCCCGCCG AACTCGCCAT CTGGCTCATC AACTTCAACA 3480 AGGGCGACTG GATCCGAGTG GGGCTCTGCT ACCCGCGAGG CACCACATTC TCCATCCTCT 3540 CGGATGTTCA CAATCGCCTG CTGAAGCAAA CGTCCAAGAC GGGCGTCTTC GTGAGGACCT 3600 TGCAGATGGA CAAAGTGGAG CAGAGCTACC CTGGCAGGAG CCACTACTAC TGGGACGAGG 3660 ACTCAGGGCT GTTGTTCCTG AAGCTGAAAG CTCAGAACGA GAGAGAGAAG TTTGCTTTCT 3720 GCTCCATGAA AGGCTGTGAG AGGATAAAGA TTAAAGCTCT GATTCCAAAG AACGCAGGCG 3780 TCAGTGACTG CACAGCCACA GCTTACCCCA AGTTCACCGA GAGGGCTGTC GTAGACGTGC 3840 CGATGCCCAA GAAGCTCTTT GGTTCTCAGC TGAAAACAAA GGACCATTTC TTGGAGGTGA 3900 AGATGGAGAG TTCCAAGCAG CACTTCTTCC ACCTCTGGAA CGACTTCGCT TACATTGAAG 3960 TGGATGGGAA GAAGTACCCC AGTTCGGAGG ATGGCATCCA GGTGGTGGTG ATTGACGGGA 4020 ACCAAGGGCG CGTGGTGAGC CACACGAGCT TCAGGAACTC CATTCTGCAA GGCATACCAT 4080 GGCAGCTTTT CAACTATGTG GCGACCATCC CTGACAATTC CATAGTGCTT ATGGCATCAA 4140 AGGGAAGATA COTCTCCAGA GGCCCATGGA CCAGAGTGCT GGAAAAGCTT GGGGCAGACA 4200 GGGGTCTCAA GTTGAAAGAG CAAATGGCAT TCGTTGGCTT CAAAGGCAGC TTCCGGCCCA 4260 TCTGGGTGAC ACTGGACACT GAGGATCACA AAGCCAAAAT CTTCCAAGTT GTGCCCATCC 4320 CTGTGGTGAA GAAGAAGAAG TTGTGAGGAC AGCTGCCGCC CGGTGCCACC TCGTGGTAGA 4380 CTATGACGGT GACTCTTGGC AGCAGACCAG TGGGGGATGG CTGGGTCCCC CAGCCCCTGC 4440 CAGCAGCTGC CTGGGAAGGC CGTGTTTCAG CCCTGATGGG CCAAGGGAAG GCTATCAGAG 4500 ACCCTGGTGC TGCCACCTGC CCCTACTCAA GTGTCTACCT GGAGCCCCTG GGGCGGTGCT 4560 GGCCAATGCT GGAAACATTC ACTTTCCTGC AGCCTCTTGG GTGCTTCTCT CCTATCTGTG 4620 CCTCTTCAGT GGGGGTTTGG GGACCATATC AGGAGACCTG GGTTGTGCTG ACAGCAAAGA 4680 TCCACTTTGG CAGGAGCCCT GACCCAGCTA GGAGGTAGTC TGGAGGGCTG GTCATTCACA 4740 GATCCCCATG GTCTTCAGCA GACAAGTGAG GGTGGTAAAT GTAGGAGAA GAGCCTTGGC 4800
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AGAACTGGCT ATCCTTGGGG AAGAGGCAAG CCCTGCCTCT GGCCGTGTCC ACCTTTCAGG 4920
AGACTTTGAG TGGCAGGTTT GGACTTGGAC TAGATGACTC TCAAAGGCCC TTTTAGTTCT 4980 GAGATTCCAG AAATCTGCTG CATTTCACAT GGTACCTGGA ACCCAACAGT TCATGGATAT 5040 CCACTGATAT CCATGATGCT GGGTGCCCCA GCGCACACGG GATGGAGAGG TGAGAACTAA 5100 TGCCTAGCTT GAGGGGTCTG CAGTCCAGTA GGGCAGGCAG TCAGGTCCAT GTGCACTGCA 5160 ATGCCAGGTG GAGAAATCAC AGAGAGGTAA AATGGAGGCC AGTGCCATTT CAGAGGGGAG 5220 GCTCAGGAAG GCTTCTTGCT TACAGGAATG AAGGCTGGGG GCATTTTGCT GGGGGGAGAT 5280 GAGGCAGCCT CTGGAATGGC TCAGGGATTC AGCCCTCCCT GCCGCTGCCT GCTGAAGCTG 5340 GTGACTACGG GGTCGCCCTT TGCTCACGTC TCTCTGGCCC ACTCATGATG GAGAAGTGTG 5400 GTCAGAGGG AGCAATGGGC TTTGCTGCTT ATGAGCACAG AGGAATTCAG TCCCCAGGCA 5400
GCCCTGCCTC TGACTCCAAG AGGGTGAAGT CCACAGAAGT GAGCTCCTGC CTTAGGGCCT 5520
CATTTGCTCT TCATCCAGGG AACTGAGCAC AGGGGGCCTC CAGGAGACCC TAGATGTGCT 5580
CGTACTCCCT CGGCCTGGGA TTTCAGAGCT GGAAATATAG AAAATATCTA GCCCAAAGCC 5640 CGTACTOCCT CGGCCTGGGA TTTCAGAGCT GGAAATATAC AAAATATCTA GCCCAAAGC 5800
TTCATTTTAA CAGATGGGGA AAGTGAGCCC CCAAGATGGG AAAGAACCAC ACCACTAAGG 5700
GAGGGCCTGG GGAGCCCCAC CCTAGCCCTT GCTGCCACAC CACATTGCCT CAACAACCGG 5760
CCCCAGAGTG CCCAGGCACT CCTGAGGTAG CTTCTGGAAA TGGGGACAAG TCCCCTCGAA 5820
GGAAAGGAAA TGACTAGAGT AGAATGACAG CTAGCAGATC TCTTCCCTCC TGCTCCCAGC 5880 GCACACAAAC COGCCCTCCC CTTGGTGTTG GCGGTCCCTG TGGCCTTCAC TTTGTTCACT 5940 GCACACAACA CORCUTCO CTIGGIGTI OCGUTCO CONTROL TO SAGO ACCTGTCAGC CCAGCCTGGG TGCACAGTAG CTGCAACTCC CCATTGGTGC TACCTGGCTC 6000 TCCTGTCTCT GCAGCTCTAC AGGTGAGGCC CAGCAGAGGG AGTAGGGCTC GCCATGTTTC 6060 TGGTGAGCCA ATTTGGCTGA TCTTGGGTGT CTGAACAGCT ATTGGGTCCA CCCCAGTCCC 6120 TTTCAGCTGC TGCTTAATGC CCTGCTCTCT CCCTGGCCCA CCTTATAGAG AGCCCAAAGA 6180 GCTCCTGTAA GAGGGAGAAC TCTATCTGTG GTTTATAATC TTGCACGAGG CACCAGAGTC 6240 TCCCTGGGTC TTGTGATGAA CTACATITAT CCCCTTTCCT GCCCCAACCA CAAACTCTTT 6300 CCTCATGTCC TTCTTGTCCA CGGTTTTGTT GAGTTTTCAC TCTTCTAATG CAAGGGTCTC 6600 ACACTGTGAA CCACTTAGGA TGTGATCACT TTCAGGTGGC CAGGAATGTT GAATGTCTTT 6660
GGCTCAGTTC ATTTAAAAAA GATATCTATT TGAAAGTTCT CAGAGTTGTA CATATGTTTC 6720
ACAGTACAGG ATCTGTACAT AAAAGTTTCT TTCCTAAACC ATTCACCAAG AGCCAATATC 6780
TAGGCATTTT CTTGGTAGCA CAAATTTTCT TATTGCTTAG AAAATTGTCC TCCTTGTTAT 6840 TTCTGTTTGT AAGACTTAAG TGAGTTAGGT CTTTAAGGAA AGCAACGCTC CTCTGAAATG 6900 CTTGTCTTTT TTCTGTTGCC GAAATAGCTG GTCCTTTTTC GGGAGTTAGA TGTATAGAGT 6960 GTTTGTATGT AAACATTTCT TGTAGGCATC ACCATGAACA AAGATATATT TTCTATTTAT 7020

TTATTATATG TGCACTTCAA GAAGTCACTG TCAGAGAAAT AAAGAATTGT CTTAAATGTC

Seq ID NO: 16 Protein sequence: Protein Accession #: XP_051860.2

1 11 21 31 41 51

MGAAGRQDFL FKAMLTISWL TLTCFPGATS TVAAGCPDQS PELQPWNPGH DQDHHVHIGQ 60
GKTLLLTSSA TVYSIHISEG GKLVIKDHDE PIVLRTRHIL IDNGGELHAG SALCFFQGNF 120
GKTLLLTSSA TVYSIHISEG GKLVIKDHDE PIVLRTRHIL IDNGGELHAG SALCFFQGNF 120
TILLYGRADE GIQPDPYYGL KYIGVGKGGA LELHGQKKLS WTFLNKTLHP GGMAEGGYFF 180
ERSWGHRGVI VHVIDPKSGT VIHSDRFDTY RSKKESERLV QYLNAVPDGR ILSVAVNDEG 240
SRNLDDMARK AMTKLGSKHF LHLGFRHPWS FLTVKGNPSS SVEDHIEYHG HRGSAAARVF 300
KLFQTEHGEY FNVSLSSEWV QDVEWTEWFD HDKVSQTKGG EKISDLWKAH PGKICNRPID 360
IQATTMDGVN LSTEVVYKKG QDYRFACYDR GRACRSYRVR FLCGKPVRPK LTVTIDTNVN 420
STILNLEDNV QSWKPGDTLV IASTDYSMYQ AEEFQVLPCR SCAPNQVKVA GKPMYLHIGE 480
EIDGVDMRAB VGLLSRNIIV MGEMEDKCYP YRNHICNFFD FDTFGGHIKF ALGFKAAHLE 540
GTELKHMGQQ LVGQYPHFH LAGDVDERGG YDPPTYIRDL SIHHTFSRCV TVHGSNGLLI 600
KDVVGYNSLG HCFFTEDGPE ERNTFDHCLG LLVKSGTLLP SDRDSKMCKM ITEDSYPGYI 660
PKPRQDCNAV STFWMANPNN NLINCAAAGS EETGFWFIFH HVPTGPSVGM YSPGYSEHIP 720
LGKFYNNRAH SNYRAGMIID NGVKTTEASA KDKRPFLSII SARYSPHQDA DPLKPREPAI 780
IRHFIAYKNQ DHGAWLRGGD VWLDSCRFAD NGIGLTLASG GTFPYDDGSK QEIKNSLFVG 840
ESGNVGTEMM DNRIWGPGGL DHSGRTLPIG QNFPIRGIQL YDGPNIQNC TFRKFVALEG 900
RHTSALAFRL NNAWQSCPHN NVTGIAFEDV PITSRVFFGE PGPWFNQLDM DGDKTSVFHD 960
VDGSVSEYPG SYLTKNDNWL VRHPDCINVP DWRGAICSGC YAQMYIQAYK TSNLRMKIIK 1020
NDFPSHPLYL EGALTRSTHY QQYQPVVTLQ KGYTHWDQT APAELAIWLI NFNKGDWIRV 1080
GLCYPRGTTF SILSDVHNRL LKQTSKTGVF VRTLQMDKVE QSYPGRSTYY WDEDSGLLFL 1140
KLKAQNEREK FAFCSMKGCE RIKIKALIPK NAGVSDCTAT AYPKFTERAV VDVPMPKKLF 1200
GSQLKTKDHF LEVKMESSKQ HFFHLWNDFA YIEVDGKKYP SSEDGIQVVV IDGNQGRVVS 1260
HTSFRNSILQ GIPWQLFNYV ATPDNSIVL MASKGRYVSR GPWTRVLEKL GADRGLKLKE 1320
QMAFVGFKGS FRPIWVTLDT EDHKAKIFQV VPIPVVKKKK L

Seq ID NO: 17 <u>DNA sequence</u>
Nucleic Acid Accession #: NM_G
Coding sequence: 61-1329

NM 015515.1

1 11 21 31 41 51

AGTTCTGCGG TGCCAGGGAG TGGAGCAGAG CTCAGCCCCG TCCCAAACAC AGATGGGACC 60 ATGAACTCCG GACACAGCTT CAGCCAGACC CCCTCGGCCT CCTTCCATGG CGCCGGAGGT 120 GGCTGGGGCC GGCCCAGGAG CTTCCCCAGG GCTCCCACCG TCCATGGCGG TGCGGGGGGA 180 GCCCGCATCT CCCTGTCCTT CACCACGCGG AGCTGCCCAC CCCCTGGAGG GTCTTGGGGT 240 TCTGGAAGAA GCAGCCCCCT ACTAGGCGGA AATGGGAAGG CCACCATGCA GAATCTCAAC 300
GACCGCCTGG CCTCCTACCT GGAGAAGGTT CGCGCCCTGG AGGAGGCCAA CATGAAGCTG 360
GAAAGCCGCA TCCTGAAATG GCACCAGCAG AGAGATCCTG GCAGTAAGAA AGATTATTCC 420 CAGTATGAGG AAAACATCAC ACACCTGCAG GAGCAGATAG TGGATGGTAA GATGACCAAT 480 GCTCAGATTA TTCTTCTCAT TGACAATGCC AGGATGGCAG TGGATGACTT CAACCTCAAG 540 TATGAAAATG AACACTCCTT TAAGAAAGAC TTGGAAATTG AAGTCGAGGG CCTCCGAAGG 600 ACCTTAGACA ACCTGACCAT TGTCACAACA GACCTAGAAC AGGAGGTGGA AGGAATGAGG 660 AAAGAGCTCA TTCTCATGAA GGAGCACCAT GAGCAGGAAA TGGAGGAGCA TCATGTGCCA 720 AGTGACTTCA ATGTCAATGT GAAGGTGGAT ACAGGTCCCA GGGAAGATCT GATTAAGGTC 780 AGIGACTICA AIGICAATGI GAAGGIGGAT ACAGGICCCA GGGAAGATCT GATTAAGGIC 760
CTGGAGGATA TGAGACAAGA ATATGAGCTT ATAATAAAGA AGAAGCATCG AGACTTGGAC 840
ACTTGGTATA AAGAACAGTC TGCAGCCATG TCCCAGGAGG CAGCCAGTCC AGCCACTGTG 900
CAGAGCAGAC AAGGTGACAT CCACGAACTG AAGCGCACAT TCCAGGCCCT GGAGATTGAC 960
CTGCAGGCAC AGTACAGCAC GAAATCTGCT TTGGAAAACA TGTTATCCGA GACCCAGTCT 1020 CGGTACTCCT GCAAGCTCCA GGACATGCAA GAGATCATCT CCCACTATGA GGAGGAACTG 1080 ACGCAGCTAC GCCACGAACT GGAGCGGCAG AACAATGAAT ACCAAGTGCT GCTGGGCATC 1140
AAAACCCACC TGGAGAAGGA AATCACCACG TACCGACGGC TCCTGGAGGG AGGAGTGAA 1200
GGGACACGGG AAGAATCAAA GTCGAGCATG AAAGTGTCTG CAACTCCAAA GATCAAGGCC 1260 ATAACCCAGG AGACCATCAA CGGAAGATTA GTTCTTTGTC AAGTGAATGA AATCCAAAAG 1320 CACGCATGAG ACCAATGAAA GTTTCCGCCT GTTGTAAAGT CTATTTTCCC CCAAGGAAAG 1380 TCCTTGCACA GACACCAGTG AGTGAGTTCT AAAAGATACC CTTGGAATTA TCAGACTCAG 1440 AAACTTITAT TITTTTTTT CTGTAACAGT CTCACCAGAC TTCTCATAAT GCTCTTAATA 1500 TATTGCACTT TTCTAATCAA AGTGCGAGTT TATGAGGGTA AAGCTCTACT TTCCTACTGC 1560
AGCCTTCAGA TTCTCATCAT TTTGCATCTA TTTTGTAGCC AATAAAACTC CGCACTAGC

Seq ID NO: 18 <u>Protein sequence:</u> Protein Accession #: NP_056330.1

1 11 21 31 41 51

MNSGHSFSQT PSASFHGAGG GWGRPRSFPR APTVHGGAGG ARISLSFTTR SCPPPGGSWG 60
SGRSSPLLGG NGKATMQNLN DRLASYLEKV RALEEANMKL ESRILKWHQQ RDPGSKKDYS 120
QYEENITHLQ EQIVDGKMTN AQIILLIDNA RMAVDDFNLK YENEHSFKKD LEIEVEGLRR 180
TLDNLTIVTT DLEQEVEGMR KELILMKEHH EQEMEEHHIVP SDFNVNVKVN TGPREDLIKV 240
LEDMRQEYEL IIKKKHRDLD TWYKEQSAAM SQEAASPATV QSRQGDIHEL KRTFQALEID 300
LQAQYSTKSA LENMLSETQS RYSCKLQDMQ EIISHYEEEL TQLRHELERQ NNEYQVLLGI 360
KTHLEKEITT YRRLLEGESE GTREESKSSM KVSATPKIKA ITQETINGRL VLCQVNEIQK 420
HA

Seq ID NO: 19 <u>DNA sequence</u> Nucleic Acid Accession #: see Table 25 & 25A for complete list

TITITITIT TTAAAAAAA GAGGCTTGGT AAGTTTTGA TACTTAGTTG ACTITTAGCA 60
TTATCCAGCA TTTGTATTAT GAACCAGTGA GTACTGTAAT TITTCTTTCC CTTTCAGAAA 120
GACTCAAAGG GAACATATAA ATGTTTCCTA TITTTNNNN NNNNNNNN NNNNNNNNN 180
NNNNACCCAT CGTGCGATGA TCNNNNNNN NNNNNNNNNN NNNNNNNNNN 180
NNNNACCCAT CGTGCGATGA TCNNNNNNN NNNNNNNNNN NNNNNTNNTNNNN NNNNNTNTGGG ATCCAGTTC 240
AAATAAGGTA TGGGAAAAAC AGATGTTTTC ATTATCGCCA CTTAATCCTT ACTTCCGATT 300
ATAATTATAC ATGTTTGGCT GTAATAACTA TACTAAAGCA TGCTTGTGAA AGTAGACTTC 360
TACAAGGACA GAAAACCCAC AACAACAAGA ATCGATCACG AAAGACAAGG CATATTCATT 420
CATTAATTTA CTTCTCTTAG ACCCGGGACA TGTGGGACAA ATACTTTTGT CCTCATGGAT 480
GGCTTGATAA TTTATTTATA TGTTCTAGAG TCTGAGGATT TTCTTTCAGT GGCAGACAC 540
AAAGGATGTT ACAATTTACT TCAAAATAAT ACAATCATGG TTTAAATTTAC AGTGTAAATC 600
CATAACTATT TTATAGAGAT GGATTATCAT ACATGGGATT ATAAAAATAAT CTTACCCATA 660
TGCTTGCAAA ATAGACTTT CCTATTGGGA GGAACACCTT TTAACCTAAA ACGGATTTAT 720
TTCAGATGAA TTAGACAGTA CATTTTTCAG GAGAACCAGC CTTACTGGAT GATCTTTTGT
780
CAGGTTTGGA GGCCTCTTCT TTGTCTTTGC AACCATAACC CCTTTTCAGC TGAAGACCA 840
TGGCCTTCAA CCCAAGCCAG GAGTTTTGGCT CAAATGA

Seq ID NO: 20 <u>DNA sequence</u>
Nucleic Acid Accession #: D32051.1
Coding sequence: 72-1373

1 11 21 31 41 51

GAATTCGAAC CAGGTGGCCA CCCGGTGTCG GTTTCATTTT CCTTTGGAAT TTCTGCTTTA 60 CAGACAGAAC AATGGCAGCC CGAGTACTTA TAATTGGCAG TGGAGGAAGG GAACATACGC 120 TGGCCTGGAA ACTTGCACAG TCTCATCATG TCAAACAAGT GTTGGTTGCC CCAGGAAACG 180 CAGGCACTGC CTGCTCCTGAA AAGATTTCAA ATACCGCCAT CTCAATCAGT GACCACACTG 240
CCCTTGCTCA ATTCTGCAAA GAGAAGAAAA TTGAATTTGT AGTTGTTGGA CCAGAAGCAC 300
CTCTGGCTGC TGGGATTGTT GGGAACCTGA GGTCTGCAGG AGTGCAATGC TTTGGCCCAA 360
CAGCAGAAGC GGCTCAGTTA GAGTCCAGCA AAAGGTTTGC CAAAGAGTTT ATGGACAGAC 420 ATGGAATCCC AACCGCACAA TGGAAGGCTT TCACCAAACC TGAAGAAGCC TGCAGCTTCA 480 TTTTGAGTGC AGACTTCCCT GCTTTGGTTG TGAAGGCCAG TGGTCTTGCA GCTGGAAAAG 540 GGGTGATTGT TGCAAAGAGC AAAGAAGAGG CCTGCAAAGC TGTACAAGAG ATCATGCAGG 600 AGAAAGCCTT TGGGGCAGCT GGAGAAACAA TTGTCATTGA AGAACTTCTT GACGGAGAAG 660 AGGTGTCGTG TCTGTGTTTC ACTGATGGCA AGACTGTGGC CCCCATGCCC CCAGCACAGG 720 ACCATAAGCG ATTACTGGAG GGAGATGGTG GCCCTAACAC AGGGGGAATG GGAGCCTATT 780 GTCCAGCCCC TCAGGTTTCT AATGATCTAT TACTAAAAAT TAAAGATACT GTTCTTCAGA 840 GGACAGTGGA TGGCATGCAG CAAGAAGTTC TACCATATAC AGGTATCTC TATGCTGGAA 900
TAATGCTGAC CAAGAATGGC CCAAAAGTTC TAGAGTTTTA TTGCCGTTTT GGTGATCCAC 960
AGTGCCAAGT AATCCTCCCA CTTCTTAAAA GTGATCTTTA TGAAGTGATT CAGTCCACCT 1020
TAGATGGACT GCTCTGCACA TCTCTGCCTG TTTGGCTAGA AAACCACACC GCCCTAACTG 1080 TTGTCATGGC AAGTAAAGGT TATCCTGGAG ACTACACCAA GGGTGTAGAG ATAACAGGGT 1140 TTCCTGAGGC TCAAGCTCTA GGACTGGAGG TGTCCCATGC AGGCACTGCC CTCAAAAATG 1200 GCAAAGTAGT AACTCATGGG GGTAGAGTTC TTGCAGTCAC AGCCATCCGG GAAAATCTCA 1260 TATCAGCCCT TGAGGAAGCC AAGAAAGGAC TAGCTGCTAT AAAGTTTGAG GGAGCAATTT 1320 ATAGGAAAGA CATCGGCTTT CGTGCCATAG CTTTCCTCCA GCAGCCCAGG TAAAACTCTA 1380 AGCAAGTTAG CTGTAGTGCC ATTTCAGAAA CTGGCCTAAA TGGCTATGTA GAACATTCCA 1440 TTAACCCTAT AAGTCATTCA GTATTCTTTT CTCTCTGTGG GAGTGATACA GTCTTGGTTT 1500 GTATTTTGTT TGAATCAAAA CTGGTTATAG CAATACTCAA ATGGAAAAAA CTTCATGATA 1560 GCGTAAGTTT GGAAAGTTTA GCAAAATCAC AGTGGTACTG ATTTTTATTT GTTTTCTATT 1620 TTTTTTATTT TATATTTTTA ATTTTTTAA CAGGGTCTTC CTCTCCGCC CAAGTTCTCA 1680 TGCCTCAGCC TCCCAAATAG CTGGGACTAC AGGCACAGGC CACCACACCT GGCTAATTTT 1740 TTTGTATTTT TTGTGGAGAT GGGGTTCACC ATGTTGCCAA GGCCAGTCTG AAAGCCTGGG 1800 CTCAAGTGAT CCTCCTGCTT TGGCCTCCCA AAATGCTGGG ACTATAGGCA TGAGGCGCTG 1860 CACTTGGCCT GATACTGATT TTTATTCCTT GCGTTATCAC ATAGTGTTGT ATTTGAAACA 1920 TAGTTCATGG TTTTATCAAA GAACTGAAGA TGAGAATACT GGTCATCTAA CTTTGTAATT 1980 TGATTTGATT ATACTGTAAA GTTTGACAGT CCCATTTTAA CCTGCGTTTG TATCTATTAC 2040 TAAAATGTAT TTTTTGACCT CTTACTGATT CATGGTTGGT ATGTACAAAC TGTTGACTTG 2100 TAAAATCAAT AAAGTCTTAG TTGG

Seq ID NO: 21 <u>Protein sequence:</u> Protein Accession #: BAA06809.1

1 11 21 31 41 51

MAARVLIIGS GGREHTLAWK LAQSHHVKQV LVAPGNAGTA CSEKISNTAI SISDHTALAQ 60
FCKEKKIEFV VVGPEAPLAA GIVGNLRSAG VQCFGPTAEA AQLESSKRFA KEFMDRHGIP 120
TAQWKAFTKP EEACSFILSA DFPALVVKAS GLAAGKGVIV AKSKEEACKA VQEIMQEKAF 180
GAAGETIVIE ELLDGEBVSC LCFTDGKTVA PMPPAQDHKR LLEGDGGPNT GGMGAYCPAP 240
QVSNDLLLKI KDTVLQRTVD GMQQEGTPYT GILYAGIMLT KNGPKVLEFN CRFGDPECQV 300
ILPLLKSDLY EVIQSTLDGL LCTSLPVWLE NHTALTVVMA SKGYPGDYTK GVEITGFPEA 360
QALGLEVSHA GTALKNGKVV THGGRVLAVT AIRENLISAL EEAKKGLAAI KFEGAIYRKD 420
IGFRAIAFLQ QPR

Seq ID NO: 22 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 1-2424

EOS cloned

ATGCCCCCTT TCCTGTTGCT GGAGGCCGTC TGTGTTTTCC TGTTTTCCAG AGTGCCCCCA 60
TCTCTCCCTC TCCAGGAAGT CCATGTAAGC AAAGAAACCA TCGGGAAGAT TTCAGCTGCC 120
AGCAAAATGA TGTGGTGCTC GGCTGCAGTG GACATCATGT TTCTGTTAGA TGGGTCTAAC 180

AGCGTCGGGA AAGGGAGCTT TGAAAGGTCC AAGCACTTTG CCATCACAGT CTGTGACGGT 240 GGGTTGCCTG GAGGCAGAAA TGCTTCTGTG CCCCAGATCC TCATCATCGT CACTGATGGG 480 AAGTCCCAGG GGGATGTGGC ACTGCCATCC AAGCAGCTGA AGGAAAGGGG TGTCACTGTG 540 TTTGCTGTGG GGGTCAGGTT TCCCAGGTGG GAGGAGCTGC ATGCACTGGC CAGCGAGCCT 600 AGAGGGCAGC ACGTGCTGTT GGCTGAGCAG GTGGAGGATG CCACCAACGG CCTCTTCAGC 660 ACCCTCAGCA GCTCGGCCAT CTGCTCCAGC GCCACGCCAG ACTGCAGGGT CGAGGCTCAC 720 CCCTGTGAGC ACAGGACGCT GGAGATGGTC CGGGAGTTCG CTGGCAATGC CCCATGCTGG 780 AGAGGATOGC GGCGGACCCT TGCGGTGCTG GCTGCACACT GTCCCTTCTA CAGCTGGAAG 840 AGAGTGTTCC TAACCCACCC TGCCACCTGC TACAGGACCA CCTGCCCAGG CCCCTGTGAC 900
TCGCAGCCCT GCCAGAATGG AGGCACATGT GTTCCAGAAG GACTGGACGG CTACCAGTGC 960
CTCTGCCCGC TGGCCTTTGG AGGGGAGGCT AACTGTGCCC TGAAGCTGAG CCTGGAATGC 1020
AGGGTCGACC TCCTCTTCCT GCTGGACAGC TCTGCGGGCA CCACTCTGGA CGGCTTCCTG 1080 CGGGCCAAAG TCTTCGTGAA GCGGTTTGTG CGGGCCGTGC TGAGCGAGGA CTCTCGGGCC 1140 CGAGTGGGTG TGGCCACATA CAGCAGGGAG CTGCTGGTGG CGGTGCCTGT GGGGGAGTAC 1200 CAGGATGTGC CTGACCTGGT CTGGAGCCTC GATGGCATTC CCTTCCGTGG TGGCCCCACC 1260 CTGACGGGCA GTGCCTTGCG GCAGGCGGCA GAGCGTGGCT TCGGGAGCGC CACCAGGACA 1320 GGCCAGGACC GGCCACGTAG AGTGGTGGTT TTGCTCACTG AGTCACACTC CGAGGATGAG 1380 GTTGCGGGCC CAGCGCGTCA CGCAAGGGCG CGAGAGCTGC TCCTGCTGGG TGTAGGCAGT 1440 GAGGCCGTGC GGGCAGAGCT GGAGGAGATC ACAGGCAGCC CAAAGCATGT GATGGTCTAC 1500 TCGGATCCTC AGGATCTGTT CAACCAAATC CCTGAGCTGC AGGGGAAGCT GTGCAGCCGG 1560 CAGCGGCCAG GGTGCCGGAC ACAAGCCCTG GACCTCGTCT TCATGTTGGA CACCTCTGCC 1620 TCAGTAGGGC CCGAGAATTT TGCTCAGATG CAGAGCTTTG TGAGAAGCTG TGCCCTCCAG 1680 TTTGAGGTGA ACCCTGACGT GACACAGGTC GGCCTGGTGG TGTATGGCAG CCAGGTGCAG 1740 ACTGCCTTCG GGCTGGACAC CAAACCCACC CGGGCTGCGA TGCTGCGGGC CATTAGCCAG 1800 GCCCCTACC TAGGTGGGGT GGGCTCAGCC GGCACCGCCC TGCTGCACAT CTATGACAAA 1860 GTGATGACCG TCCAGAGGGG TGCCCGGCCT GGTGTCCCCA AAGCTGTGGT GGTGCTCACA 1920 GGCGGGAGAG GCGCAGAGGA TGCAGCCGTT CCTGCCCAGA AGCTGAGGAA CAATGGCATC 1980 TCTGTCTTGG TCGTGGGCCT GGGGCCTGTC CTAAGTGAGG GTCTGCGGAG GCTTGCAGGT 2040 CCCCGGGATT CCCTGATCCA CGTGGCAGCT TACGCCGACC TGCGGTACCA CCAGGACGTG 2100 CTCATTGAGT GGCTGTGTGG AGAAGCCAAG CAGCCAGTCA ACCTCTGCAA ACCCAGCCCG 2160 TGCATGAATG AGGGCAGCTG CGTCCTGCAG AATGGGAGCT ACCGCTGCAA GTGTCGGGAT 2220 GGCTGGGAGG GCCCCCACTG CGAGAACCGT GAGTGGAGCT CTTGCTCTGT ATGTGTGAGC 2280 CAGGGATGGA TTCTTGAGAC GCCCCTGAGG CACATGGCTC CCGTGCAGGA GGGCAGCAGC 2340 CGTACCCCTC CCAGCAACTA CAGAGAAGGC CTGGGCACTG AAATGGTGCC TACCTTCTGG 2400 AATGTCTGTG CCCCAGGTCC TTAG

Seq ID NO: 23 Protein sequence; Protein Accession #: EOS cloned

1 11 21 31 41 51

MPPFLLLEAV CVFLFSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN 60
SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR 120
MVFKGGRTET ELALKYLLHR GLPGGRNASV PQILIIVTDG KSQGDVALPS KQLKERGYTV 180
FAVGVRFPRW EELHALASEP RGQHVLLAEQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH 240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPPYSWK RVFLTHPATC YRTTCPGPCD 300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL 360
RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPDLVWSL DGIPFRGGPT 420
LTGSALRQAA ERGFGSATRT GQDPRRVVVV LLTESHSEDE VAGPARHARA RELLLGVGS 480
EAVRAELEEI TGSPKHVMVY SDPQDLFNQI PELQGKLCSR QRPGCRTQAL DLVFMLDTSA 540
SVGPENFAQM QSFVRSCALQ FEVNPDVTQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ 600
APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVLT GGRGAEDAAV PAQKLRNNGI 660
SVLVVGVGPV LSEGLRRLAG PRDSLHVAA YADLRYHQDV LIEWLCGEAK QPVNLCKPSP 720
CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR EWSSCSVCVS QGWILETPLR HMAPVQEGSS 780
RTPPSNYREG LGTEMVPTFW NVCAPGP

Seq ID NO: 24 <u>DNA sequence</u> Nucleic Acid Accession #: see Table 25 & 25A for complete list

41

31

PCT/US02/06001 WO 02/068677

ATTTATTGAC TITAAATAAT TITGTCTAAT GCTACATATA CACAATTAAA AAACCTITAC 1320 ACTATTTCTA GAAAGTCAGC ATGTATTTTT GGCTCGAAGT TTCTCTAGTG TTTTCTGTGG 1380
AAGGAATAAA AATTTGAGGT TTCAATACAA AAACAAAAACA AACAACACGA AACACGAAAA 1440
ACAATCTGTT GTGCGGCGCC CCTGGGCCCC TTGAGAGAAA ACTTTTTAGA ACCCCTTTTG 1500 CGTTGTGGCG GCCCGGGGC CCCACAGTTG GGTTTAGGTG GGCACCCTTG TGTCTACAAG 1560 TGGTGTCTCC CCAAGAGAGA GAACACCTCC GGGGTCAAGC GGACAACAAG AGTGCGTCGT 1620 GAGGACTOTT CACCCAAAGT ATATAAAACC CGCCCGCGG GGGAACCACC GGCCGCTTTT 1680 CTGTAGACAC AACCCCCACA GTGGGAACCT CTGAGGGCGC ACACACAGGG CGAGCCTTAT 1740 CAACAAGGGG TGCCCAACAG AAACCCCGAG TTAAAAATCG

Seq ID NO: 25 DNA sequence Nucleic Acid Accession #: BC001972.1 Coding sequence: 183-1019 31 41 51

GGTCGGCTGG TTATCGGGAG TTGGAGGGCT GAGGTCGGGA GGGTGGTGTG TACAGAGCTC 60 AGTGCGCGGT TGGGGCCACT GCGAGGCCGT TTTAGAAAAC TGTTTAAAAC AAAGAGCAAT 180 TGATGGATAA ATCAGGAATA GATTCTCTTG ACCATGTGAC ATCTGATGCT GTGGAACTTG 240 CAAATCGAAG TGATAACTCT TCTGATAGCA GCTTATTTAA AACTCAGTGT ATCCCTTACT 300 CACCTAAAGG GAGAAAAGA AACCCCATTC GAAAATTTGT TCGTACACCT GAAAGTGTTC 360 ACGCAAGTGA TTCATCAAGT GACTCATCTT TTGAACCAAT ACCATTGACT ATAAAAGCTA 420 TTTTTGAAAG ATTCAAGAAC AGGAAAAAGA GATATAAAAA AAAGAAAAAG AGGAGGTACC 480 TAGATAAGAA GAAACAATTT AGAAGCAGAG GATCTGGCTT CCCATTTTTA GAATCAGAGA 600 ATGAAAAAA CGCACCTTGG AGAAAAATTT TAACGTTTGA GCAAGCTGTT GCAAGAGGAT 660 TTTTTAACTA TATTGAAAAA CTGAAGTATG AACACCACCT GAAAGAATCA TTGAAGCAAA 720 TGAATGTTGG TGAAGATTTA GAAAATGAAG ATTTTGACAG TCGTAGATAC AAATTTTTGG 780 ATGATGATGG ATCCATTTCT CCTATTGAGG AGTCAACAGC AGAGGATGAG GATGCAACAC 840 ATCTTGAAGA TAACGAATGT GATATCAAAT TGGCAGGGGA TAGTTTCATA GTAAGTTCTG 900 AATTCCCTGT AAGACTGAGT GTATACTTAG AAGAAGAGGA TATTACTGAA GAAGCTGCTT 960 TGTCTAAAAA GAGAGCTACA AAAGCCAAAA ATACTGGACA GAGAGGCCTG AAAATGTGAC 1020 AGGATCATGA ATGTCAAAGG CTTTTATCTT GAGAACATGG TGTCTGGAGT TAAAGGACTA 1080 TTGTTAGATC TGTGGGAAGG AATTACAAGA CAGTTGCTAA AAGTTTGAAA AAGACGGTTG 1140 CTAAACGTTA TGAAAAACCA GATAATCTAC TTTTTTACCT TAGGTATTGG CATACTCCAC 1200 ACATCTGTAC CATTCTTGAG TGATCGCTTA GGAATGAATG TGATTTGAAC TCATTCATGT 1260 TGAGAGGGTG TCAAATTGAG AACCAGGTAG ATCCCCACCA CCTACAGTAA AAAGGACCCT 1320
AAAGTAAATT GGTTGAAGAA ATTAGATCCC AAAGATTCTT GGTGAATTTT GAAGTCTTCA 1380
TCAGTATATC CATATTAAAA CGAGATGACA GAAGCCAAAG TAATTATGGG CTGACAGGAC 1440
AACTGGATCA GTTTCATTAA AAAGGGCAAA CTTGAAGATA AATCTTTTGA CTCCAGCTCT 1500 TTAGAGGATC TAAAGTGACC TTGATGGACA GTGGAAGAAA TCACAACATG GAATTCCTCG 1560 ATAACAATT TATTGACTTT AAATAATTTT GTCTAATGCT ACATATACAC AATTAAAAAA 1620 ССТТТАСАСТ ААААААААА АААААА

Seq ID NO: 26 Protein sequent Protein Accession #: AAH01972.1

11 51 31

MDKSGIDSLD HVTSDAVELA NRSDNSSDSS LFKTOCIPYS PKGEKRNPIR KFVRTPESVH 60 ASDSSSDSSF EPIPLTIKAI FERFKNRKKR YKKKKRRYQ PTGRPRGRPE GRRNPIYSLI 120 DKKKQFRSRG SGFPFLESEN EKNAPWRKIL TFEQAVARGF FNYIEKLKYE HHLKESLKQM 180 NVGEDLENED FDSRRYKFLD DDGSISPIEE STAEDEDATH LEDNECDIKL AGDSFIVSSE 240 FPVRLSVYLE EEDITEEAAL SKKRATKAKN TGQRGLKM

Seq ID NO: 27 DNA sequence Nucleic Acid Accession #: Coding sequence: 207-1043

AK027016

51

CTTTTCTTCC GCACGGTTGG AGGAGGTCGG CTGGTTATCG GGAGTTGGAG GGCTGAGGTC 60
GGGAGGGTGG TGTGTACAGA GCTCTAGGAC TCACGCACCA GGCCAGTCGC GGATTTTGGG 120
CCGAGGCCTG GGTTACAAGC AGCAAGTGCG CGGTTGGGGC CACTGCGAGG CCGTTTTAGA 180 CCGAGGCCTG GGTTACAAGC AGCAAGTGCG CGGTTGGGGC CACTGCGAGG CCGTTTTAGA 180
AAACTGTTTA AAACAAAGAG CAATTGATGG ATAAATCAGG AATAGATTCT CTTGACCATG 240
TGACATCTGA TGCTGTGGAA CTTGCAAATC GAAGTGATAA CTCTTCTGAT AGCAGCTTAT 300
TTAAAACTCA GTGTATCCCT TACTCACCTA AAGGGGAGAA AAGAAACCCC ATTCGAAAAT 360
TTGTTCGTAC ACCTGAAAGT GTTCACGCAA GTGATTCATC AAGTGACTCA TCTTTTGAAC 420
CAATACCATT GACTATAAAA GCTATTTTTG AAAGATTCAA GAACAGGAAA AAGAATATA 480
AAAAAAAGAA AAAGAGGAGG TACCAGCCAA CAGGAAGACC ACGGGGAAAGA CCAGAAGGAA 540 GGAGAAATCC TATATACTCA CTAATAGATA AGAAGAAACA ATTTAGAAGC AGAGGATCTG 600 GCTTCCCATT TTTAGAATCA GAGAATGAAA AAAACGCACC TTGGAGAAAA ATTTTAACGT 660 TTGAGCAAGC TGTTGCAAGA GGATTTTTTA ACTATATTGA AAAGCTGAAG TATGAACACC 720 ACCTGAAAGA ATCATTGAAG CAAATGAATG TTGGTGAAGA TTTAGAAAAT GAAGATTTTG 780 ACAGTCGTAG ATACAAATTT TTGGATGATG ATGGATCCAT TTCTCCTATT GAGGAGTCAA 840 ACAGICATAC ATACAAATTT TIGGATGATGA ATGGATCAT TICTCLATT GAGGAGICAA 840
CAGCAGAGGA TGAGGATGCA ACACATCITG AAGATAACGA ATGTGATATC AAATTGGCAG 900
GGGATAGTTT CATAGTAAGT TCTGAATTCC CTGTAAGACT GAGTGTATAC TTAGAAGAAG 960
AGGATATTAC TGAAGAAGCT GCTTTGTCTA AAAAGAGAGC TACAAAAGCC AAAAATACTG 1020
GACAGAGAGG CCTGAAAATG TGACAGGATC ATGAATGTCA AAGGCTTTTA TCTTGAGAAC 1080
ATGGTGTCTG GAGTTAAAGG TATTGGCATA CTCCACCACAT CTGTACCATT CTTGAGTGAT 1140 CGCTTAGGAA TGAATGTGAT TTGAACTCAT TCATGTTGAG AGGGTGTCAA ATTGAGAACC 1200 AGGTAGATCC CCACCACCTA CAGTAAAAAG GACCCTAAAG TAAATTGGTT GAAGAAATTA 1260 GATCCCAAAG ATTCTTGGTG AATTTTGAAG TCTTCATCAG TATATCCATA TTAAAACGAG 1320

Seq ID NO: 28 <u>Protein sequence</u>: Protein Accession #: BAB15628.1

1 11 21 31 41 51

MDKSGIDSLD HVTSDAVELA NRSDNSSDSS LFKTQCIPYS PKGEKRNPIR KFVRTPESVH 60
ASDSSSDSSF EPIPLTIKAI FERFKNRKKR YKKKKKRRYQ PTGRPRGRPE GRRNPIYSLI 120
DKKKQFRSRG SGFPFLESEN EKNAPWRKIL TTEQAVARGF FNYIEKLKYE HHLKESLKQM 180
NVGEDLENED FDSRRYKFLD DDGSISPIEE STAEDEDATH LEDNECDIKL AGDSFIVSSE 240
FPVRLSVYLE EEDITEEAAL SKKRATKAKN TGORGLKM

Seq ID NO: 29 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 493-1695

NM_004289.3

1 11 21 31 41 51

GCCGCCGCCT CGTCCACCGG AGGAGCCGGC GCCAGCGTGG ACGGCGGCAG CCAGGCTGTG CAGGGGGGCG GCGGGGACCC CCGAGCGGCT CGGAGTGGC CCTTTGGACGC CGGGGAAGAG 120
GAGAAGGCAC CCGCGGAACC GACGGCTCAG GTGCCGGACG CTGGCGGATG TGCGAGCGAG 180 GAGAATGGGG TACTAAGAGA AAAGCACGAA GCTGTGGATC ATAGTTCCCA GCATGAGGAA AATGAAGAAA GGGTGTCAGC CCAGAAGGAG AACTCACTTC AGCAGAATGA TGATGATGAA 300 AACAAAATAG CAGAGAAACC TGACTGGGAG GCAGAAAAGA CCACTGAATC TAGAAATGAG 360 AGACATCTGA ATGGGACAGA TACTTCTTTC TCTCTGGAAG ACTTATTCCA GTTGCTTTCA 420
TCACAGCCTG AAAATTCACT GGAGGGCATC TCATTGGGAG ATATTCCTCT TCCAGGCAGT 480
ATCAGTGATG GCATGAATTC TTCAGCACAT TATCATGTAA ACTTCAGCCA GGCTATAAGT 540 CAGGATGTGA ATCTTCATGA GGCCATCTTG CTTTGTCCCA ACAATACATT TAGAAGAGAT 600 CCAACAGCAA GGACTTCACA GTCACAAGAA CCATTTCTGC AGTTAAATTC TCATACCACC 660 AATCCTGAGC AAACCCTTCC TGGAACTAAT TTGACAGGAT TTCTTTCACC GGTTGACAAT 720 CATATGAGGA ATCTAACAAG CCAAGACCTA CTGTATGACC TTGACATAAA TATATTTGAT 780 GAGATAAACT TAATGTCATT GGCCACAGAA GACAACTTTG ATCCAATCGA TGTTTCTCAG 840 CTTTTTGATG AACCAGATTC TGATTCTGGC CTTTCTTTAG ATTCAAGTCA CAATAATACC 900 TCTGTCATCA AGTCTAATTC CTCTCACTCT GTGTGTGATG AAGGTGCTAT AGGTTATTGC 960 ACTGACCATG AATCTAGTTC CCATCATGAC TTAGAAGGTG CTGTAGGTGG CTACTACCCA 1020
GAACCCAGTA AGCTTTGTCA CTTGGATCAA AGTGATTCTG ATTTCCATGG AGATCTTACA 1080
TTTCAACACG TATTTCATAA CCACACTTAC CACTTACAGC CAACTGCACC AGAATCTACT 1140 TCTGAACCTT TTCCGTGGCC TGGGAAGTCA CAGAAGATAA GGAGTAGATA CCTTGAAGAC 1200 ACAGATAGAA ACTTGAGCCG TGATGAACAG CGTGCTAAAG CTTTGCATAT CCCTTTTTCT 1260
GTAGATGAAA TTGTCGGCAT GCCTGTTGAT TCTTTCATA GCATGTTAAG TAGATATTAT 1320
CTGACAGACC TACAAGTCTC ACTTATCCGT GACATCAGAC GAAGAGGGAA AAATAAAGTT 1380
GCTGCGCAGA ACTGTCGTAA ACGCAAATTG GACATAATTT TGAATTTAGA AGATGATGTA 1440 TGTAACTTGC AAGCAAAGAA GGAAACTCTT AAGAGAGAGC AAGCACAATG TAACAAAGCT 1500 ATTAACATAA TGAAACAGAA ACTGCATGAC CTTTATCATG ATATTTTTAG TAGATTAAGA 1560 GATGACCAAG GTAGGCCAGT CAATCCCAAC CACTATGCTC TCCAGTGTAC CCATGATGGA 1620 AGTATCTTGA TAGTACCCAA AGAACTGGTG GCCTCAGGCC ACAAAAAGGA AACCCAAAAG 1680 GGAAAGAGAA AGTGAGAAGA AACTGAAGAT GGACTCTATT ATGTGAAGTA GTAATGTTCA 1740 GAAACTGATT ATTTGGATCA GAAACCATTG AAACTGCTTC AAGAATTGTA TCTTTAAGTA 1800 CTGCTACTTG AATAACTCAG TTAACGCTGT TTTGAAGCTT ACATGGACAA ATGTTTAGGA 1860 CTTCAAGATC ACACTTGTGG GCAATCTGGG GGAGCCACAA CTTTTCATGA AGTGCATTGT 1920 ATACAAAATT CATAGTTATG TCCAAAGAAT AGGTTAACAT GAAAACCCAG TAAGACTTTC 1980 CATCTTGGCA GCCATCCTTT TTAAGAGTAA GTTGGTTACT TCAAAAAGAG CAAACACTGG 2040 GGATCAAATT ATTTTAAGAG GTATTTCAGT TTTAAATGCA AAATAGCCTT ATTTTCATTT 2100 AGTTTGTTAG CACTATAGTG AGCTTTTCAA ACACTATTTT AATCTTATA TTTAACTTAT 2160 AAATTTTGCT TTCT

Seq ID NO: 30 Protein sequence: Protein Accession #: NP_004280

1 11 21 31 41 51

MNSSAHYHVN FSQAISQDVN LHEAILLCPN NTFRRDPTAR TSQSQEPFLQ LNSHTTNPEQ 60
TLPGTNLTGF LSPVDNHMRN LTSQDLLYDL DINIFDEINL MSLATEDNFD PIDVSQLFDE 120
PDSDSGLSLD SSHNNTSVIK SNSSHSVCDE GAGIGYCTDHE SSSHHDLEGA VGGYVEPFSK 180
LCHLDQSDSD FHGDLTFQHV FHNHTYHLQP TAPESTSEPF PWPGKSQKIR SRYLEDTDRN 240
LSRDEQRAKA LHIPFSVDEI VGMPVDSTNS MLSRYYLTDL QVSLIRDIRR RGKNKVAAQN 300
CRKRKLDIIL NLEDDVCNLQ AKKETLKREQ AQCNKAINIM KQKLHDLYHD IFSRLRDDQG 360

RPVNPNHYAL QCTHDGSILI VPKELVASGH KKETQKGKRK

Seq ID NO: 31 <u>DNA sequence</u> Nucleic Acid Accession #: NM_033260.1 Coding sequence: 1-1208

1 11 21 31 41 51

Seq ID NO: 32 Protein sequence: Protein Accession #: NP_150285.1

1 11 21 31 41 51

MKLEVFVPRA AHGDKQGSDL EGAGGSDAPS PLSAAGDDSL GSDGDCAAKP SAGGGARDTQ 60 GDGEQSAGGG PGAEEAIPAA AAAAVVAEGA EAGAAGPGAG GAGSGEGARS KPYTRRPKPP 120 YSYIALIAMA IRDSAGGRLT LAEINEYLMG KFPFFRGSYT GWRNSVRHNL SLNDCFVKVL 180 RDFSRPWGKD NYWMLNPNSE YTFADGVFRR RRKRLSHRAP VPAPGLRPEE APGLPAAPPP 240 APAAPASPRM RSPARQEERA SPAGKFSSSF AIDSILRKPF RSRRLRDTAP GTTLQWGAAP 300 CPPLPAFPAL LPAAPCRALL PLCAYGAGEP ARLGAREAEV PPTAPPLLLA PLPAAAPAKP 360 LRGPAAGGAH LYCPLRLPAA LQAALVRRPG PHLSYPVETL LA

Seq ID NO: 33 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 43-2796

NM_012128.2

1 11 21 31 41 51

Seq ID NO: 34 <u>Protein sequence:</u> Protein Accession #: NP_036260.1

1 11 21 31 41 51

MGLFRGFVFL LVLCLLHQSN TSFIKLNNNG FEDIVIVIDP SVPEDEKIIE QIEDMVTTAS 60
TYLFEATEKR FFFKNVSILI PENWKENPQY KRPKHENHKH ADVIVAPPTL PGRDEPYTKQ 120
FTECGEKGEY IHFTPDLLLG KKQNEYGPPG KLFVHEWAHL RWGVTDEYNE DQFPYRAKSK 180
KIEATRCSAG ISGRNRVYKC QGGSCLSRAC RIDSTTKLYG KDCQFFPDKV QTEKASIMFM 240
QSIDSVVEFC NEKTHNQEAP SLQNIKCNFR STWEVISNSE DFKNTIPMVT PPPPPVFSLL 300
KIRQRIVCLV LDKSGSMGGK DRLNRMNQAA KHFLLQTVEN GSWVGMVHFD STATTVNKLI 360
QIKSSDERNT LMAGLPTYPL GGTSICSGIK YAFQVIGELH SQLDGSEVLL LTDGEDNTAS 420
SCIDEVKQSG AIVHFIALGR AADEAVIEMS KITGGSHFYV SDEAQNNGLI DAFGALTSGN 480
TDLSQKSLQL ESKGLTLNSN AWMNDTVIID STVGKDTFFL ITWNSLPPSI SLWDPSGTIM 540
ENFTVDATSK MAYLSIPGTA KVGTWAYNLQ AKANPETLTI TVTSRAANSS VPPITVNAKM 600
NKDVNSFPSP MIVYAEILQG YVPVLGANVT AFIESQNGHT EVLELLDNGA GADSFKNDGV 660
YSRYFTAYTE NGRYSLKVRA HGGANTARLK LRPPLNRAAY IPGWVVNGEI EANPPRPEID 720
EDTQTTLEDF SRTASGGAFV VSQVPSLPLP DQYPPSQITD LDATVHEDKI ILTWTAPGDN 780
FDVGKVQRYI IRISASILDL RDSFDDALQV NTTDLSPKBA NSKESFAFKP ENISEENATH 840
IFIAIKSIDK SNLTSKVSNI AQVTLFIPQA NPDDIDPTPT PTPTPDKSHN SGVNISTLVL 900

Seq ID NO: 35 <u>DNA sequence</u>
Nucleic Acid Accession #:
Coding sequence: 217-3171

NM_000901.1

41

ACGTACATCG CTCCTGCAAA AGAACCCTCG GTCAACACAG CACTGGTTCC TCAGCTCTCC 2400 ACAATCTCAC GAGCGCTCAC ACCTTCCCCC GTTATGGTCC TTGAAAACAT TGAACCTGAA 2460 ATTGTATATG CAGGCTATGA CAGCTCAAAA CCAGATACAG CCGAAAATCT GCTCTCCACG 2520 CTCAACCGCT TAGCAGGCAA ACAGATGATC CAAGTCGTGA AGTGGGCAAA GGTACTTCCA 2580 GGATTTAAAA ACTTGCCTCT TGAGGACCAA ATTACCCTAA TCCAGTATTC TTGGATGTGT 2640 CTATCATCAT TTGCCTTGAG CTGGAGATCG TACAAACATA CGAACAGCCA ATTTCTCTAT 2700 TTTGCACCAG ACCTAGTCTT TAATGAAGAG AAGATGCATC AGTCTGCCAT GTATGAACTA 2760 TGCCAGGGGA TGCACCAAAT CAGCCTTCAG TTCGTTCGAC TGCAGCTCAC CTTTGAAGAA 2820 TACACCATCA TGAAAGTTTT GCTGCTACTA AGCACAATTC CAAAGGATGG CCTCAAAAGC 2880 CAGGCTGCAT TTGAAGAAAT GAGGACAAAT TACATCAAAG AACTGAGGAA GATGGTAACT 2940 AAGTGTCCCA ACAATTCTGG GCAGAGCTGG CAGAGGTTCT ACCAACTGAC CAAGCTGCTG 3000 GACTCATGC ATGACCTGGT GAGCGACCTG CTGGAATTCT GCTTCTACTAC CTTCCGAGAG 3060
TCCCATGCGC TGAAGGTAGA GTTCCCCGCA ATGCTGGTGG AGATCATCAC CTTCCGAGAG 3060
CCCAAGGTGG AGTCGGGGAA CGCCAAGCCG CTCTACTTCC ACCGGAAGTG ACTGCCCGCT 3180
GCCCAGAAGA ACTTTGCCTT AAGTTTCCCT GTGTTGTTCC ACCCCAGAA GGACCCAAGA 3240
AAACCTGTTT TTAACATGTG ATGGTTGATT CACACTTGTT CAACAGTTTC TCAAGTTTAA 3300 AGTCATGTCA GAGGTTTGGA GCCGGGAAAG CTGTTTTTCC GTGGATTTGG CGAGACCAGA 3360 GCAGTCTGAA GGATTCCCCA CCTCCAATOC CCCAGCGCTT AGAAACATGT TCCTGTTCCT 3420 CGGGATGAAA AGCCATATCT AGTCAATAAC TCTGATTTTG ATATTTTCAC AGATGGAAGA 3480 AGTTTTAACT ATGCCGTGTA GTTTCTGGTA TCGTTCGCTT GTTTTAAAAG GGTTCAAGGA 3540 CTAACGAACG TTTTAAAGCT TACCCTTGGT TTGCACATAA AACGTATAGT CAATATGGGG 3600 CATTAATATT CTTTTGTTAT TAAAAAAACA CAAAAAAATA ATAAAAAAAT ATATACAGAT 3660 TCCTGTTGTG TAATAACAGA ACTCGTGGCG TGGGGCAGCA GCTGCCTCTG AGCCCTCGCT 3720 CGTCCACGGT CTTCTGCATC ACTGGTATAC ACACTCGTTA GCGTCCATTT CTTATTTAAT 3780 TAGAATGGAT AAGATGATGT TAAATGCCTT GGTTTGATTT CTAGTATCTA TTGTGTTGGC 3840 TTTACAAATA ATTTTTTGCA GTCTTTTGCT GTGCTGTACA TTACTGTATG TATAAATTAT 3900 GAAGGACCTG AAATAAGGTA TAAGGATCTT TTGTAAATGA GACACATACA AAAAAAATCT 3960 TTAATGGTTA ATAGGATGAA TGGGAAAGTA TTTTTGAAAG AATTCTATTT TGCTGGAGAC 4020 TATTTAAGTA CTATCTTTGT CTAAACAAGG TAATTTTTTT TIGTAAAGTG CAATGTCCTG 4080 CATGCATAAT GAACCGTTTA CAGTGTATTT AAGAAAGGGA AAGCTGTGCC TITTTTAGCT 4140 TCATATCTAA TTTACCATTA TITTACAGTC TCTGTTGTAA ATAACCACAC TGAAACCTCT 4200 TCGGTTGTCT TGAAACCTTT CTACTTTTTC TGTACTTTTT GTTTTGTTCT TGGTCTCCCG 4260 CTTGGGGCAT TTGTGGGACT CCAGCACGTT TTCTGGCTTC TGCTCCATCC 4320 GGGAATGACA CACTGCGGTG TCTGCAGCTC CTGGAAGGTG TCATTTGACA ACACATGTGG 4380 GAGAGGAGGT CCTTGGAGTG CTGCAGCTTT GGGAAAGCCT GCCTCGTTTC CCTTTTCCTC 4440 TAGAAGCAGA ACCAGCTCTA CGAGAGTGAG ACTGGGAACT TGATGGCTCA GAGAGCATCT 4500 TTTCCTCCCA TTTTAGAAAA TCAGATTTTC TCCTGTGGGA AAAAAAAATT CCATGCACTC 4560 TCTCTCTGTT AAAGATCAGC TATTCCCTTC TGATCTTGGA AAGAGGTTCT GCACTCCTGG 4620 AACCGGTCAC AGGAACGCAC AGATCATGGC AGGATGCGCT GGGACGGCCC ATCTTGGCAA 4680 GGTTCAGTCT GAATGGCATG GAGACCGGGA GATAGAGGGG TTTTAGATTT TTAAAAGGTA 4740 GGTTTTAAAA ATAAGTTTTA TACATAAACA GTTTTGGAGA AAAATTACAG ATCATATAAG 4800 CAAGACAGTG GCACTAAAAT GTTTAATTCA TTAATCTGTT TGTTTGGCAC TGATGCAATG 4860 TATGGCTTTT CTCTTGCCCC AAATCACAAA CATATGTATC TTTGGGGAAA CTAACAATAT 4920 GATTGCACTA AATAAACTAC TTTGAATAGA GGCCAAATTA ATCTTTTAAA AATGATGATA 4980 ATCATCAGGT TTACTCAGTG AAATCATATT AATTATTTTC CAAAATCTAA AAGCTGTAGC 5040
TGGAGAAGCC CATGGCCACG AGGAAGCAGC AATTAATTAG ATCAACACTT TTCTCCAGGG 5100
TTCACCATGC AGGCAACATT ACCTTGTCTT TCAAAAGACA CCTGCCTTAG TGCAAGGGGA 5160 AACCTGTGAA AGCTGCACTC AGAGGGAGGA GTCTTTCTTA CATAATTTGC AATTTCAGGA 5220 ATTTAATTTA TAGGCAGATC TITAAATACA GTCAACTTAC GGTGCACAGT AATATGAAAG 5280
CCACACTTTG AAGGTAATAA ATACACAGCA TGCAGACTGG GAGTTGCTAG CAAACAAATG 5340
GCTTACTTAC AAAAGCAGCT TTTAGTTCAG ACTTAGTTTT TATAAAATGA GAATTCTGAC 5400
TTACTTAACC AGGTTTGGGA TGGAGATGGT CTGCATCAGC TTTTTGTATT AACAAAGTTA 5460 CTGGCTCTTT GTGTGTCTCC AGGTAACTTT GCTTGATTAA ACAGCAAAGC CATATTCTAA 5520 ATTCACTGTT GAATGCCTGT CCCAGTCCAA ATTGTCTGTC TGCTCTTATT TTTGTACCAT 5580 ATTGCTCTTA AAAATCITGG TTTGGTACAG TTCATAATTC ACCAAAAAGT TCATATAATT 5640 TAAAGAAACA CTAAATTAGT TTAAAATGAA GCAATTTATA TCTTTATGCA AAAACATATG 5700 TCTGTCTTTG CAAAGGACTG TAAGCAGATT ACAATAAATC CTTTACTTT

Seq ID NO: 36 <u>Protein sequence:</u> Protein Accession #: NP_000892.1

VEIISDQLPK VESGNAKPLY FHRK

METKGYHSLP EGLDMERRWG QVSQAVERSS LGPTERTDEN NYMEIVNVSC VSGAIPNNST 60
QGSSKEKQEL LPCLQQDNNR PGILTSDIKT ELESKELSAT VAESMGLYMD SVRDADYSYE 120
QQNQQGSMSP AKIYQNVEQL VKFYKGNGHR PSTLSCVNTP LRSFMSDSGS SVNGGVMRAI 180
VKSPINCHEK SPSVCSPLNM TSSVCSPAGI NSVSSTASF GSFPVHSPIT QGTPLTCSPN 240
AENRGSRSHS PAHASNVGSP LSSPLSSMKS SISSPPSHCS VKSPVSSPNN VTLRSSVSSP 300
ANINNSRCSV SSPSNTNNRS TLSSPAASTV GSICSPVNNA FSYTASGTSA GSSTLRDVVP 360
SPDTQEKGAQ EVPFPKTEEV ESAISNGVTG QLNIVQYIKP EPDGAFSSSC LGGNSKINSD 420
SSFSVPIKQE STKHSCSGTS FKGNPTVNFP FPMDGSYFSF MDDKDYYSLS GILGPPVPGF 480
DGNCEGSGFP VGIKQEPDDG SYYPEASIPS SAIVGVNSGG QSFHYRIGAQ GTISLSRSAR 540
DQSFQHLSSF PPVNTLVESW KSHGDLSSRR SDGYPVLEYI PENVSSTLR SVSTGSSRPS 600
KKCLVCGDEA SGCHYGVVTC GSCKVFFKRA VEGQHNYLCA GRNDCIIDKI RRKNCPACRL 660
QKCLQAGMNL GARKSKKLGK LKGIHEEQPQ QQQPPPPFPP PQSPEEGTTY IAPAKEPSVN 720
TALVPQLSTI SRALTPSPVM VLENIEPEIV YAGYDSSKPD TAENLLSTLN RLAGKQMIQV 780
VKWAKVLPGF KNLPLEDQIT LLQYSWMCLS SFALSWRSYK HTNSQFLYFA PDLVPNEEKM 840
KGLRKMVTKC PNNSGQSWQR FYQLTKLLDS MHDLVSDLLE FCFYTFRESH ALKVEFPAML 960

Seq ID NO: 37 <u>DNA sequence</u> Nucleic Acid Accession #: see Table 25 & 25A for complete list

I 11 21 31 41 51

CCTACCAGGT TCAAGCAACT CTGCTGCCTC AGCTCCCAAG TAGCTGGGAT TACAGGTGCA 60
TGCCACTACA CCTGGCTTTT TOTATTTTTA GTAGAGATGG TTTTCACTAT GTTTGGCCAGG 120
CTGATCTTGA ATTCCTGGCC TGAAGTAATC TGCCTGCCTC AGCCTCCCAA AGTGCTGGGA 180
TTATAGGAGC CACCACACCT GGCATAACTG GTATTTTTTA TATGGTTCCT GGGCAACTTA 240
AAAAATTGAT TACTCTGTTG TTTCTTCCTT TTTTTTTTT TTTTGGCTTT GGCAAATTG 300
TGAGACCCAA GTATCTCCTA CCTAGAAAAA AAACACACTA AACAGTAAAT GATTACCAAC 360
CTATTTGGAA CAAATCTCAA TTAATTAACA TATACTTCAA GGAGAAGACT TAACAAAATC 420
TTACTTTTCA TTCTTAATAG CTCTTTCCAT AAAAATGTTC CACAAGTGTA TCAAATTAGT 480
GCCTAACAACT ACTGTTAAGT GATTAATGAA ACAGGAGTGA CAGGAGTGAA TTTAATAATA 540
GCAATAAATA CAGATGGGAC TACATAAATT GTGGAGGTCC TGATGCAAAA TCTCTCTCTGT 600
ATTCGATGGC ATCTCAGCTT TCTCATAGAG CTGTTTCACT GTGAGGGTCT TTATCCTTCA 660
TGCAGAGACT CATTATTTTC TTTCTTCTAG CAATCAGTCC AAAGCACAAT GTCAGAAAGA 720
TCACAACACA TGCAGCAATA ATGGGCTCTA TTGGTACACC CACAGTTTTA TCTTTAACAA 780

Seq ID NO: 38 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 219-773

NM_001192.1

1 11 21 31 41 51

AAGACTCAAA CTTAGAAACT TGAATTAGAT GTGGTATTCA AATCCTTACG TGCCGCGAAG 60
ACACAGACAG CCCCCGTAAG AACCCACGAA GCAGGCGAAG TTCATTGTTC TCAACATTCT 120
AGCTGCTCTT GCTGCATTTG CTCTGGAATT CTTGTAGAG TATTACTTGT CCTTCCAGGC 180
TGTTCTTTCT GTAGCTCCCT TGTTTTCTTT TTGTGATCAT GTTGCAGATG GCTGGGCAGT 240
GCTCCCAAAA TGAATATTTT GACAGTTTGT TGCATGCTTG CATACCTTGT CAACATTCGAT 300
GTTCTTCTAA TACTCCTCCT CTAACATGTC AGCGTTATTG TAATGCAAGT GTGACCAATT 360
CAGTGAAAGG AACGAATGCG ATTCTCTGGA CCTGTTTTGGG ACTGAGCCTAA ATAATTTCTT 420
TGGCAGTTTT CGTGCTAATG TTTTTGCTAA GGAAGATAAG CTCTGAACCA TTAAAGGACG 480
AGTTTAAAAA CACAGGATCA GGTCTCCTTGG GCATGGCTAA CATTGACCTG GAAAAGAGCA 540
GGACTGGTGA TGAAATTATT CTTCCGAGAG GCCTCGAGTA CACGGTGGAA GAATGCACCT 600
GTGAAGACTG CATCAAGAGC AAACCGAAGG TCGACCTTGA CCATTGCTTT CCACTCCCAG 660
CTATGGAGGA AGGCGCAACC ATTCTTGTCA CCACGAAAAC GAATGACTAT TGCAAGAGCC 720
TGCCAGCTGC TTTGAGTGCT ACGGAGATAG AGAAATCAAT TTCTGCTAGG TAATTAACCA 780
TTTCGACTCG AGCAGTGCCA CTTTAAAAAT CTTTTTGTCAG AATAGATGAT GTGTCAGATC 840
TCTTTAGGAT GACTGTATTT TTCAGTTGCC GATACAGCTT TTTTTTCCTATAG TAACGTTGGAA 900
ACTCTTTATG TTAGATATAT TCTCTAGGT TACTGTTGGG AGCTTAATGG TAGAAACTTC 960
CTTGGTTTCA TGATTAAAATC CTTTTTTTTT CCTGA

Seq ID NO: 39 Protein sequence: Protein Accession #: NP_001183.1

21

1 11 21 31 41 51

MLQMAGQCSQ NEYFDSLLHA CIPCQLRCSS NTPPLTCQRY CNASVTNSVK GTNAILWTCL 60 GLSLIISLAV FVLMFLLRKI SSEPLKDEFK NTGSGLLGMA NIDLEKSRTG DEIILPRGLE 120 YTVEECTCED CIKSKPKVDS DHCFPLPAME EGATILVTTK TNDYCKSLPA ALSATEIEKS 180 ISAR

Seq ID NO: 40 <u>DNA sequence</u>
Nucleic Acid Accession #: NM_025087.1
Coding sequence: 183-2282

31

41

51

Seq ID NO: 41 <u>Protein sequence:</u> Protein Accession #: NP_079363.1

1 11 21 31 41 51

MTSLWREILL ESLLGCVSWS LYHDLGPMIY YFPLQTLELT GLEGFSIAFL SPIFLTITFF 60
WKLVNKKWML TLLRIITIGS IASFQAPNAK LRLMVLALGV SSSLIVQAVT WWSGSHLQRY 120
LRIWGFILGQ IVLVVLRIWY TSLNPIWSYQ MSNKVILTLS AIATLDRIGT DGDCSKPEEK 180
KTGEVATGMA SRPNWLLAGA AFGSLVFLTH WVFGEVSLVS RWAVSGHPHF GPDPNFFGGA 240
VLLCLASGLM LPSCLWFRGT GLIWWVTGTA SAAGLLYLHT WAAAVSGCVF AIFTASMWPQ 300
TLGHLINSGT NPGKTMTIAM IFYLLEIFFC AWCTAFKFVP GGVYARERSD VLLGTMMLII 360
GLNMLFGPKK NLDLLLQTKN SSKVLFRKSE KYMKLFLWLL VGVGLLGLGL RHKAYERKLG 420
KVAPTKEVSA AIWPFRFGYD NEGWSSLERS AHLLNETGAD FITILESDAS KPYMGNNDLT 480
MWLGEKLGFY TDFGPSTRYH TWGIMALSRY PIVKSEHHLL PSPEGEIAPA ITLTVNISGK 540
LVDFVVTHFG NHEDDLDRKL QAIAVSKLLK SSSNQVIFLG YITSAPGSRD YLQLTEHGNV 600
KDIDSTDHDR WCEYIMYRGL IRLGYARISH AELSDSEIQM AKFRIPDDPT NYRDNQKVVI 660
DHREVSEKIH FNPRFGSYKE GHNYENNINF HMNTPKYFL

It is understood that the examples described above in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes. All publications, sequences of accession numbers, and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference.

WHAT IS CLAIMED IS:

1	1.	A method of detecting a metastatic colorectal cancer-associated		
2	transcript in a cell fro	om a patient, the method comprising contacting a biological sample from		
3	the patient with a pol	ynucleotide that selectively hybridizes to a sequence at least 80%		
4	identical to a sequence	ce as shown in Tables 1-26.		
	_			
1	2.	The method of claim 1, wherein the biological sample comprises		
2	isolated nucleic acids	5.		
1	3.	The method of claim 1, wherein the polynucleotide is labeled.		
1	4.	The method of claim 1, wherein the polynucleotide is immobilized on		
2	a solid surface.			
_	_			
1	5.	An isolated nucleic acid molecule consisting of a polynucleotide		
2	sequence as shown in	n Tables 1-26.		
1	6.	An expression vector comprising the nucleic acid of claim 5.		
1	7.	A host cell comprising the expression vector of claim 6.		
1	8.	An isolated polypeptide which is encoded by a nucleic acid molecule		
2	having polynucleotid	e sequence as shown in Tables 1-26.		
		-		
1	9.	An antibody that specifically binds a polypeptide of claim 8.		
1	10.	The antibody of claim 10, which is an antibody fragment.		
1	11.	The antibody of claim 10, which is a humanized antibody		
1	12.	A method of detecting a metastatic colorectal cancer cell in a		
2	biological sample fro	m a patient, the method comprising contacting the biological sample		
3	with an antibody of c	laim 9.		
1	13.	The method of claim 12, wherein the antibody is labeled.		
1	14.	A method of detecting antibodies specific to metastatic colorectal		
2	cancer in a patient, th	e method comprising contacting a biological sample from the patient		
3	with a polypeptide encoded by a nucleic acid comprises a sequence from Tables 1-26.			

15. A method for identifying a compound that modulates a metastatic colorectal cancer-associated polypeptide, the method comprising the steps of:

- (i) contacting the compound with a metastatic colorectal cancer-associated polypeptide, the polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26.; and
 - (ii) determining the functional effect of the compound upon the polypeptide.
- 16. The method of claim 15, wherein the functional effect is determined by measuring ligand binding to the polypeptide.
- 17. A method of inhibiting proliferation of a metastatic colorectal cancer-associated cell to treat colorectal cancer in a patient, the method comprising the step of administering to the subject a therapeutically effective amount of a compound that modulates a polypeptide encoded by a sequence as shown in Tables 1-26.
 - 18. A drug screening assay comprising the steps of
- (i) administering a test compound to a mammal having colorectal cancer or a cell isolated therefrom;
- (ii) comparing the level of gene expression of a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26. in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal, wherein a test compound that modulates the level of expression of the polynucleotide is a candidate for the treatment of colorectal cancer.
- 19. A pharmaceutical composition for treating a mammal having colorectal cancer, the composition comprising a compound identified by the assay of claim 18 and a physiologically acceptable excipient.
- 20. A method of detecting a metastatic colorectal cancer-associated polypeptide in a cell from a patient, the method comprising contacting a biological sample from the patient with a antibody that that specifically binds a polypeptide encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-26.
 - 21. The method of claim 21, wherein the antibody is labeled.